

BOTTOM TRAWL SURVEY OF CRAB AND GROUNDFISH:
KODIAK ISLAND, CHIGNIK, AND SOUTH PENINSULA AREAS, 1996

By
Daniel Urban

Regional Information Report¹ No. 4K97-58

Alaska Department of Fish and Game
Commercial Fisheries Management and Development Division
211 Mission Road
Kodiak, Alaska 99615

December 1997

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AUTHOR

Daniel Urban is a fisheries biologist for the Alaska Department of Fish and Game, Division of Commercial Fisheries, 211 Mission Road, Kodiak, AK 99615.

ACKNOWLEDGMENTS

The following staff from the Alaska Department of Fish and Game provided important assistance: Dave Jackson supervised data collection for a portion of the surveys; Jim Blackburn provided programming; and Lucinda Neel assisted in the preparation of the report for publication, Nang Blackett entered data. Special thanks to Captain Ron Kutchick of the R/V *Resolution*, his crew Tim Howland and Danny Wilson, and technicians Dave Gilliland, Tom Dinnocenzo, and Joe Dinnocenzo.

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ABSTRACT

A trawl survey of Kodiak Island, and Alaska Peninsula areas was completed during June to September of 1996. A total of 372 tows were completed. Catch composition was determined and crabs and commercial groundfish were quantified. Red king crab *Paralithodes camtschaticus* and Tanner crab *Chionoecetes bairdi* stocks were found to be in a depressed state throughout the region with populations insufficient to support commercial fisheries. A survey of bitter crab syndrome in Alitak Bay found levels at 6.6%. This was the first survey to separate the northern and southern rock sole species.

KEY WORDS: crab, groundfish, *Paralithodes*, *Chionoecetes*, trawl survey, Kodiak, Alaska Peninsula, Chignik, bitter crab syndrome, rock sole

INTRODUCTION

Bottom trawl surveys were conducted by the Alaska Department of Fish and Game (ADF&G) in 1996 in the Westward Region which focused on inshore waters around Kodiak Island and along the Alaska Peninsula from Cape Douglas to False Pass. As defined by 5 AAC 34.400 and 5 AAC 34.500 this includes the Kodiak and a portion of the Alaska Peninsula management areas for red king crab *Paralithodes camtschaticus* and by 5 AAC 35.505, the Kodiak, Chignik, and South Peninsula districts of the Westward management area for Tanner crab *Chionoecetes bairdi*. This report will refer to Tanner crab management units unless specifically talking about king crab.

Trawl surveys were conducted in the Westward Region as early as 1963. Early surveys targeted Long Island Bank (Reynolds 1964), Marmot Flats (McMullen 1967a), Portlock Bank (McMullen 1967b), Albatross Banks (McMullen 1968), Alitak and Kaguyak (Kingsbury 1971), and areas of Kodiak Island as well as Chignik and Pavlof Bays on the Alaska Peninsula (Colgate and Hicks 1983, Colgate 1984). Because the trawling allows faster surveying and also captures smaller age classes of crabs, it has gradually replaced the crab pot as the preferred gear for crab stock assessment (Jackson 1990). The last pot survey was conducted in 1987. The 1990 trawl survey was the first to cover the Eastern Aleutians District. A list of the Tanner crab districts surveyed by the Westward Region since 1988 is found in Table 1.

The primary objective of the survey was to assess Tanner crab and red king crab populations. A secondary objective was to document the prevalence of bitter crab syndrome in the Tanner crab stocks in Alitak Bay and to examine the incidental catch of groundfish. Specific objectives for the groundfish portion of the survey were to (1) determine species composition of the catch by haul and area, (2) obtain length frequency distributions for commercially important groundfish by area and (3) determine the distribution of the newly recognized species of rock sole, the northern rock sole *Lepidopsetta perarciuata* which has been determined to be distinct from the southern rock sole *Lepidopsetta bilineata*. An explanation of special technical terms and abbreviations used in this report is presented in Appendix A.

In addition to these objectives, the survey accommodated several special requests. Dr. Christine Ribic of the University of Wisconsin-Madison again requested data on marine debris caught in the survey for comparison with types of debris caught in other areas of the United States. Forest Blau of ADF&G Kodiak requested duplicate tows in certain areas of Chiniak Bay in order to increase the accuracy of the local king crab population estimates. These stations had been sampled with larval crab collectors five years previously and those larva should now begin to become available to the trawl survey.

METHODS

Trawl Description and Procedures

The 27.4-m ADF&G research vessel *Resolution* was used to sample areas of known king and Tanner crab habitat. One tow was made at each station, except for several stations in Chiniak Bay: CHA and CHB were sampled three times, CHE and CHK were sampled twice.

A 400-mesh eastern otter trawl net was used. This net had a 21.3-m (70-ft) long headrope with 18 floats that were 3.1 cm (8 in) in diameter. The footrope was 29.0 m (95 ft) long and lacked roller gear or tickler chain. The footrope was weighted with a 1-cm (3/8-in) chain attached every 25.4 cm (10 in) to ensure that the footrope tended bottom. The two dandylines were 45.7 m (25 fathoms) long, and each consisted of an 18.3-m (10-fathom) section of 1.5-cm (5/8-in) cable and a pair of 27.4-m (15-fathom) sections of 1.3-cm (1/2-in) cable, one attached to the top and the other to the bottom of each net wing. The Astoria "V" type doors weighed 340 kg (750 lb) each and measured 1.5 m x 2.1 m (5 ft x 7 ft). The net was constructed with 10.2-cm (4-in) stretch mesh at the mouth, 8.9-cm (3.5-in) stretch mesh in the body, and the cod end consisted of a 3.2-cm (1.25-in) stretch mesh liner. The net was designed to sweep a 12.2-m (40-ft) path.

The offshore survey areas were divided into stations approximately 9.2 km square and each inshore or bay area was divided into stations 4.6 km square. Because of land boundaries, considerable variation occurred in the size of some offshore and most bay stations. The trawl was towed on the bottom at a speed of approximately 3.7 km per hour (2 knots) for 1.85 km at each station. This distance, the equivalent of one nautical mile, captured a suitable sample weight in most areas. The length of the tow was determined from GPS readings; corrections were estimated by the skipper for tows that were not straight. Irregular bottom type occasionally caused haul lengths to differ from 1.85 km. Catches, tow distances and related information are recorded in Appendix B. Catches are standardized as kilograms per kilometers. Trawl placement within stations was determined by bottom contours and the location of trawlable bottom. All tows were made during daylight hours. The stations surveyed in 1996 with their areas in km^2 listed by stratum, section, and district are given in Appendix C. A data logger from Brancker and Associates was used to record temperatures. The logger was attached to the headrope of the net so bottom temperatures recorded were approximately 2 meters above the bottom.

Catches were brought aboard and total weight of the catch was determined by weighing the cod end of the trawl using an electronic crane scale accurate to the nearest 5 pounds. For some important commercial species, the entire haul was sampled. These species include sablefish *Anoplopoma fimbria*, Pacific cod *Gadus macrocephalus*, halibut *Hippoglossus stenolepis*, all rockfish *Sebastodes* and *Sebastolobus*, lingcod *Ophiodon elongatus*, octopus *Octopus dolfeini*, salmon, weathervane scallops *Patinopecten caurinus*, skates, Dungeness crab *Cancer magister*, Tanner crab, and king crab. One 35 kg capacity basket was used to obtain a subsample of the other species in the catch. The entire subsample was sorted, counted, and weighed. Spiny dogfish *Squalus acanthias* and giant wrymouth *Delophis gigantea* which are not likely to be taken in a basket sample were whole haul sampled. Commercial finfish species taken in the subsample and whole haul sample and also Tanner crabs and king crabs were measured to provide a size frequency distribution for each

species. Finfish were measured from snout to the fork or mid-point of the caudal fin. Tanner crab widths were measured inside the spines. King crabs were measured for length from the eye socket to medial posterior edge of the carapace. Crab widths outside the spines were checked for the legal status. Reproductive success of mature Tanner and king crabs was measured by examining for the presence of egg clutches and estimating the percent fullness to the closest 10%. Crab exhibiting signs of the bitter crab syndrome (BCS) were noted.

Hemolymph smears from thirty randomly selected Tanner crabs were prepared from each haul in Alitak Bay on the south end of Kodiak Island. This area had previously been identified as an area of high prevalence of bitter crab syndrome (Pearson 1992). The smears were stained with a Baxter Dif-Quik stain and read under protocols established by the State Pathology Laboratory in Juneau. Thirty fields were examined under 100 power for each slide and rated either positive on a scale of 1 to 4 or negative.

Rock sole were differentiated using characteristics defined by the National Marine Fishery Service (James Orr, personal communication). The blind side skin on the southern rock sole is more transparent with the abdominal muscle pattern clearly visible. The gill rakers in southern rock sole are blunter and stouter than the northern rock sole, with the raker count being 6-10 in the southern and 10-14 in the northern. For fish with the overlap count of 10 rakers, the blind side skin characteristics were used to distinguish the species. Some fish could not be speciated.

King and Tanner Crab Population Estimation

Population estimates for king and Tanner crabs were derived from the trawl survey data using the *area swept* technique (Alverson 1969). Assuming that the trawl swept a path 12.2 m wide, the area swept by the trawl in a 1-km tow was $1/82 \text{ km}^2$. Hence, the catch per tow was converted into a density estimate, number per kilometer squared by multiplying the number caught per kilometer by 82. The calculated density was then multiplied by the area of the station being considered to give an estimate of that station's population size. In stations where more than one tow was completed, the number caught per kilometer was calculated by combining the total catch in all hauls in the station and dividing by the total distance towed in those hauls. Population estimates were computed for desired subsets of geographic or biological variables by summing the estimates from the individual stations.

RESULTS

Areas fished are shown in Figure 1 and Appendix B details the exact position, depth, date, bottom temperature, catch and other information recorded for each tow. The other roundfish category listed in Appendix B includes poachers, wolf eels, herring, lingcod, tomcod, atka mackerel, snailfish, eulachon, capelin, wrymouth, prickleback, prowfish, and pricklebacks. Other flatfish includes English sole, sand sole, and butter sole. Other elasmobranchs includes sharks. Other invertebrates includes snails, jellyfish, sea pens, sea anemones, various non-commercial crabs, nudibranchs, starfish, urchins, sea cucumbers, sponges, tunicates and brachiopods.

Kodiak Populations

The Northeast, Eastside, Southeast, and Southwest Sections of the Kodiak Island District were surveyed from June 18 to July 14 with 161 tows completed (numbers 1-161, 153 stations). The Westside and North Mainland Sections were surveyed from August 23 to September 13, and 62 tows were completed (numbers 311-372). The locations of the Kodiak Island tows are shown in Appendices D.1-D.8. The calculated area used in the Kodiak crab population estimates totaled 9,962.0 km².

The 1996 survey captured a total of 15,689 male and 10,435 female Tanner crabs having mean widths of 81.9 mm and 61.2 mm, respectively (Figure 2). Tanner crabs were captured in 95% of all tows, their catch numbers ranging from 1 to 1,448 crabs. New-shell crabs accounted for 92.2% of the total male Tanner crabs captured on the Kodiak survey (Table 2).

Population estimates for Tanner crabs (Appendix E) were derived for most of the commercial fishing sections described in the ADF&G commercial shellfish regulations. Appendix E also gives the catch of each size-sex category per 1.85 km towed by station. The estimated population and the shell condition of male Tanner crabs in the Kodiak fishing sections is shown in figures 3 and 4. Each crab measured was weighted by a factor of the tow length, net width, and station size to obtain the data for these graphs.

The portion of the Kodiak District Tanner population included in the survey area was estimated to be 37.4 million animals, just up from the estimate of 35.4 million in 1995 (Urban 1996b, Table 3). The average size of both the female and male Tanner population increased, indicating that more crab are surviving to the larger size categories (Figure 5, Urban 1996b).

The population of legal Tanner crabs in the Kodiak District was estimated to be 988,000, up from the 1995 estimate of 680,000. This level is still only 20% of the 1989 population. Due to low abundance of legal crabs, the Kodiak Management District did not open to commercial fishing as scheduled on January 15, 1997.

Egg clutches of 2,785 mature female Tanner crabs from the Kodiak area were examined (Figure 6); a large number of primiparous females were encountered, 53% of all mature females, compared with an average of 23% over the previous three surveys (Urban 1995, Urban 1996a, Urban 1996b).

Ninety males and 153 female red king crabs were captured. Males had a mean length of 136.4 mm and females 122.1 mm. The majority were mature. King crabs were captured in 10% of the tows with catches ranging from 1 animal per tow to a high of 67 king crabs in Alitak Bay.

The Kodiak red king crab population remains at historically low population levels, and the commercial fishing season for this species has remained closed since 1983 (Figure 7). The Kodiak red king crab population in surveyed areas was estimated to be only 94,360 animals. Population estimates were derived for the main commercial fishing districts by size and sex categories (Appendix F). Fecundity, as measured by clutch fullness, is shown in Figure 6. Sixty-eight percent of the adult female king crabs sampled had an ovigerity of 80% or greater.

The average haul weight of fish and invertebrates from all Kodiak hauls was 1,106 kg/kilometer towed. Species composition from each Kodiak area haul is presented in Appendix B. xxx Arrowtooth flounder *Atheresthes stomias* was the most abundant species encountered (31.1%), followed by pollock *Theragra chalcogramma* (16.7%) and flathead sole *Hippoglossoides elassodon* (16.7%). The rank and relative abundance by weight of the 20 most common species encountered in the Kodiak survey are listed in Table 4.

Length measurements of more than 15,800 fish from 35 species were taken during the Kodiak Island bottom trawl survey. Length frequency data has been combined by bays within the Kodiak area (Appendix G). The catch of selected groundfish are plotted by haul in Figures 8 and 9.

South Peninsula and Chignik Populations

The area south of the Alaska Peninsula was surveyed from July 31 through August 22 with 149 hauls being completed. There were 122 hauls in the South Peninsula District, numbers 178 to 299, 121 stations. Twenty-seven hauls were completed in the Chignik District, numbers 162 to 177 and 300 to 310, 27 stations. The calculated areas used in the crab population estimates were 3482.8 km² and 549.2 km² in the South Peninsula and Chignik districts, respectively (Appendix C). Mechanical difficulties prevented surveying in the Mitrofania Island and Kuiukta Bay areas which are normally covered. Appendices D.9-D.13 show the specific locations, haul numbers and trawl station names in the sampled areas.

The 1996 Alaska Peninsula bottom trawl survey captured 4,333 Tanner crabs in the South Peninsula District. The number of Tanner crabs captured in a single tow ranged from 1 to 424 animals. The mean width of Tanner crabs in that district was 62.0 mm for males and 49.6 mm for females (Figure 2). Size frequency and shell condition of the estimated male Tanner crab populations in 1996 by fishing area are shown in Figures 10 and 11. Population estimates were derived for each size-sex category of crabs by fishing area (Appendix H).

The Tanner crab population in the surveyed portion of the South Peninsula District was estimated to be 5.6 million crabs, up from the 1994 survey estimate of 2.5 million crabs (Urban 1996a). The population of crab larger than 85 mm continued to decline; legal crab were at their lowest level since the district was first surveyed by trawl in 1988. Conversely, the smaller sizes of crab showed their highest levels since 1991 (Table 5, Figure 12). The commercial Tanner crab fishery did not open during the 1997 season because of low legal crab abundance and high anticipated effort..

The 1996 Chignik bottom trawl survey captured 3,951 Tanner crabs. The number of Tanner crabs captured in a single tow ranged from 1 to 900 animals. The mean width of Tanner crabs was 69.1 mm for males and 48.3 mm for females (Figure 2). Both the male and female mean size declined from the previous survey, reflecting the larger numbers of small crab captured. (Urban 1996b). New-shelled animals accounted for 92% of the male Tanner crabs captured (Table 2). Size frequency and shell condition of the estimated male Tanner crab populations by fishing area is shown in Figure 13. Chignik Bay continues to show the highest populations in the district across a wide range of carapace widths.

Population estimates were derived for each size-sex category of crabs by fishing area (Appendix I). The 1996 Tanner crab population was estimated to be 3.4 million crabs, up from the previous estimate of 1.6 million (Table 5, Figure 14). The population increase was spread across a wide range of crab sizes. The commercial Tanner crab fishery did not open in the Chignik District during the 1996 season. The legal estimate is still well below historic levels and high levels of effort are anticipated.

Egg clutches of 80% fullness or greater were found in 45% of 243 adult female Tanner crabs captured in the South Peninsula District and in 80% of 128 adult females in the Chignik District (Figure 15).

The red king crab population in the Alaska Peninsula remains at historic low levels: only 22 male and 7 female red king crabs were captured with mean lengths of 125.3 mm for males and 57.0 mm for females. The population was estimated to be only 15,841 crabs (Appendix J). As has been the case in Kodiak, the last commercial fishery was the 82/83 season.

Species composition of each Alaska Peninsula haul is presented in Appendix B. Flathead sole, *Hippoglossoides elassodon* was the most abundant species encountered (25.5%), followed by yellowfin sole, *Pleuronectes aspera* (18.9%), and arrowtooth flounder, *Atheresthes stomias* (17.3%). The rank and relative abundance by weight of the 20 most common species encountered are listed in Table 6.

Length frequencies were derived from 11,900 measurements of 28 groundfish species found in the Alaska Peninsula area (Appendix K). Catches of selected groundfish are mapped in Figures 16 and 17.

Prevalence of Bitter Crab Syndrome

Blood smears were sampled from 352 Tanner crabs in Alitak Bay. The results of this testing for 1991 to 1996 are summarized in table 7. The percent of positive samples in 1996 ranged from 31.0% in station ALQ to a number of stations with no detected incidence. In Alitak Bay, the population of infected crab was estimated to be 68,700 crabs, up from the 39,600 of the previous year, but since the overall Tanner crab population nearly doubled the prevalence rate went from 7.8% to 6.6% (table 8).

In the sampled crabs, 4 of 4 crabs judged to be suspect of bitter crab syndrome by visual inspection had blood smears containing the bitter crab dinoflagellate. This indicates trained observers can be very accurate in identifying crab with gross external symptoms of the disease. Conversely, 84.6% of the crab whose blood smears contained BCS cells showed no external symptoms of the disease.

Northern and southern rock sole

Northern and southern rock sole were found throughout the entire survey area. Highest catches of both species were recorded in the northern Kodiak Island area and the western end of the Alaska

Peninsula area (Figure 18). Northern rock sole measured were smaller and found at shallower depths than the southern rock sole (Figure 19, Smirnov Test $P > .01$).

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Table 1. Locations and numbers of hauls conducted by the Westward Region trawl survey, 1988-1996.

	Kodiak	Chignik	South Peninsula	Eastern Aleutians	Shrimp ^a	TOTAL
1988	217		108			325
1989	221	35	132		187	575
1990	217	37	123			423
1991	228	33	117	41		419
1992	209	29	114		76	428
1993	231	35	111			377
1994	200	34	122	44		400
1995	218	31		38	85	372
1996	223	27	122			372

^aIncludes shrimp surveys in all areas.

Table 2. Number of male king and Tanner crab by shell condition and cohort captured during the Westward Region trawl survey, 1996.

cohort	definition	SHELL CONDITION				TOTAL
		soft-shell	new-shell	old-shell	very old	
Kodiak king crab						
Prerecruit IV	< 79 mm	0	4	0	0	4
Prerecruit III	79 - 95 mm	0	5	0	0	5
Prerecruit II	96 - 115 mm	0	15	0	0	15
Prerecruit I	>116 mm and sublegal	0	29	0	0	29
Recruit	<152 mm and legal new-shell	0	5	--	--	5
Postrecruit	>151 mm or legal and not new-shell	0	25	4	3	32
		0	83	4	3	90
Kodiak Tanner crab						
Prerecruit IV	< 70 mm	243	5,735	5	0	5,983
Prerecruit III	70 - 91 mm	83	3,206	29	5	3,323
Prerecruit II	92 - 114 mm	30	2,243	177	52	2,502
Prerecruit I	>114 mm and sublegal	13	1,684	486	228	2,411
Recruit	<165 mm and legal new-shell	0	586	--	--	586
Postrecruit	>164 mm or legal and not new-shell	0	30	466	182	678
		369	13,484	1,163	467	15,483
Chignik Tanner crab						
Prerecruit IV	< 70 mm	45	1,365	1	0	1,411
Prerecruit III	70 - 91 mm	5	190	0	0	195
Prerecruit II	92 - 114 mm	0	49	15	5	69
Prerecruit I	>114 mm and sublegal	0	167	73	7	247
Recruit	<165 mm and legal new-shell	0	276	--	--	276
Postrecruit	>164 mm or legal and not new-shell	0	0	64	4	68
		50	2,047	153	16	2,266
South Peninsula Tanner crab						
Prerecruit IV	< 70 mm	77	1,559	0	0	1,636
Prerecruit III	70 - 91 mm	12	169	0	0	181
Prerecruit II	92 - 114 mm	0	106	11	13	130
Prerecruit I	>114 mm and sublegal	1	131	16	63	211
Recruit	<165 mm and legal new-shell	0	77	--	--	77
Postrecruit	>164 mm or legal and not new-shell	0	2	12	34	48
		90	2,044	39	110	2,283

Table 3. Tanner crab population estimates from trawl surveys in the Kodiak area, 1987-1996.

Year	Females			No. Sublegal Males by size (mm)				Recruits		Postrecruit		Total Legal	Total Males	Total Crab
	Juvenile	Adult	Total	<70	70-91	92-114	>114	<165 mm	>164 mm					
Northeast														
1987	461,089	1,135,422	1,596,511	352,860	248,415	326,506	493,916	101,484	197,865	33,038	332,387	1,754,084	3,350,595	
1988	2,643,594	674,490	3,318,084	2,495,836	395,350	545,140	685,327	384,565	23,104	20,977	428,647	4,550,299	7,868,383	
1989	5,481,792	5,654,266	11,136,058	5,127,986	1,546,105	2,165,369	2,319,049	1,409,193	133,905	269,859	1,812,957	12,971,466	24,107,524	
1990	1,812,656	3,140,834	4,953,490	1,446,757	1,482,180	1,142,711	1,024,635	510,407	93,031	101,879	705,317	5,801,500	10,754,990	
1991	4,385,849	2,055,075	6,440,924	3,651,597	1,501,747	1,330,396	1,080,017	424,636	25,367	52,117	502,121	8,065,877	14,506,801	
1992	2,013,074	1,365,357	3,378,431	1,586,874	1,225,453	929,682	793,749	209,337	15,516	7,070	231,922	4,767,681	8,146,112	
1993	2,273,819	1,116,830	3,390,649	2,224,926	435,614	581,625	637,663	263,095	31,759	16,787	311,640	4,191,469	7,582,118	
1994	602,256	1,227,010	1,829,266	627,897	170,908	255,845	455,371	102,589	98,082	2,401	203,072	1,713,093	3,542,359	
1995	6,481,040	1,423,393	7,904,433	6,459,818	1,453,343	326,713	372,625	10,279	132,191	0	142,470	8,754,969	16,659,402	
1996	2,132,659	2,508,696	4,641,355	1,766,596	2,544,865	1,190,131	427,287	30,485	54,026	1,603	86,114	6,014,993	10,656,348	
Eastside														
1987	5,476,413	3,930,451	9,406,864	5,750,053	609,468	514,257	1,202,144	149,925	299,091	89,925	538,941	8,614,863	18,021,727	
1988	2,083,954	820,032	2,903,986	1,616,718	443,778	627,028	732,705	298,165	100,786	1,914	400,865	3,821,092	6,725,078	
1989	2,393,419	3,821,312	6,214,731	2,029,181	1,567,590	1,640,007	1,285,700	799,441	270,769	29,333	1,099,543	7,622,021	13,836,762	
1990	1,547,033	10,045,389	11,592,422	1,299,698	679,016	2,019,193	4,059,072	788,369	162,670	60,418	1,011,457	9,068,436	20,660,858	
1991	1,490,845	3,677,868	5,168,713	1,207,670	289,090	655,547	2,669,044	3,016,121	494,482	38,622	3,549,225	8,370,576	13,539,289	
1992	1,292,574	1,963,566	3,256,140	1,612,556	328,625	472,486	1,584,166	460,988	280,962	64,984	806,934	4,804,767	8,060,907	
1993	1,723,641	1,504,592	3,228,233	1,362,714	252,485	406,367	1,003,469	108,462	382,993	18,760	510,215	3,535,250	6,763,483	
1994	1,768,539	571,130	2,339,669	1,311,715	706,286	465,077	572,892	28,420	141,209	2,837	172,466	3,228,436	5,568,105	
1995	3,796,916	505,420	4,302,336	3,326,873	594,529	456,566	411,403	24,858	87,815	2,394	115,067	4,904,438	9,206,774	
1996	2,099,145	916,539	3,015,684	2,187,039	705,077	609,875	849,485	107,556	179,487	14,538	301,581	4,653,057	7,668,741	
Southeast														
1987	2,379,119	894,205	3,273,324	2,044,847	413,335	337,537	875,142	480,004	88,816	2,841	571,661	4,242,522	7,515,846	
1988	243,200	314,486	557,686	188,394	221,880	607,670	1,186,633	777,880	129,593	50,773	958,246	3,161,723	3,719,409	
1989	922,092	424,847	1,346,939	694,841	140,444	246,215	564,215	175,593	70,553	9,739	255,885	1,901,600	3,248,539	
1990	1,148,017	781,102	1,929,119	1,086,357	131,469	299,245	651,302	383,859	117,252	5,970	507,081	2,675,454	4,604,573	
1991	4,650,523	919,633	5,570,156	4,448,179	425,927	270,594	367,736	173,532	37,162	7,382	218,076	5,730,512	11,300,668	
1992	2,156,307	1,322,229	3,478,536	1,648,095	688,608	443,849	587,767	33,246	139,404	10,076	182,726	3,551,045	7,029,581	
1993	3,893,508	563,806	4,457,312	3,625,310	248,343	430,013	403,299	27,357	111,011	8,453	146,821	4,853,786	9,311,098	
1994	112,692	222,890	335,582	88,247	28,663	87,918	474,048	108,208	54,865	4,252	167,325	846,201	1,181,783	
1995	2,728,372	110,416	2,838,788	2,425,953	15,058	28,566	82,912	76,922	47,721	2,370	127,013	2,679,502	5,518,290	
1996	2,567,943	141,849	2,709,792	2,274,742	486,210	112,033	124,446	55,489	68,179	7,990	131,658	3,129,089	5,838,881	

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Table 3. (Page 2 of 3).

Year	Females			No. Sublegal Males by size (mm)				Recruits	Postrecruit		Total Legal	Total Males	Total Crab
	Juvenile	Adult	Total	<70	70-91	92-114	>114		<165 mm	>164 mm			
Southwest													
1987	2,368,774	590,671	2,959,445	1,990,338	45,752	727,616	1,799,111	638,664	107,127	44,416	790,207	5,353,024	8,312,469
1988	191,219	225,135	416,354	168,051	18,405	63,339	591,313	1,370,943	61,725	76,170	1,508,838	2,347,946	2,764,300
1989	2,716,302	220,553	2,936,855	2,510,149	202,807	189,372	443,446	281,673	118,617	85,688	485,978	3,831,752	6,768,607
1990	3,527,315	1,383,437	4,910,752	2,635,176	1,259,988	709,183	704,467	53,127	59,552	11,567	124,246	5,433,060	10,343,812
1991	1,248,463	262,105	1,510,568	1,020,587	219,284	403,480	553,335	97,159	33,952	3,185	134,298	2,330,982	3,841,550
1992	461,617	212,484	674,101	455,293	153,648	320,046	236,226	296,449	58,330	5,803	360,582	1,525,795	2,199,896
1993	6,656,829	244,881	6,901,710	6,173,566	505,031	182,384	392,985	251,151	69,760	13,352	334,263	7,568,229	14,489,939
1994	205,702	120,561	326,263	131,884	70,630	60,597	145,516	129,013	23,087	7,429	159,529	568,156	894,419
1995	151,984	91,201	243,185	137,702	57,628	109,653	124,067	33,631	48,012	0	81,643	510,693	753,878
1996	348,245	44,722	392,967	326,522	98,585	162,621	240,133	36,057	74,458	1,571	112,086	939,947	1,332,914
Westside													
1987	2,541,394	1,526,443	4,067,837	1,243,848	2,401,608	1,149,549	1,302,877	835,177	46,421	50,537	932,135	7,030,017	11,097,854
1988	3,232,321	1,125,086	4,357,407	2,903,179	160,149	477,223	606,182	243,134	45,969	21,869	310,972	4,457,705	8,815,112
1989	8,655,122	1,185,882	9,841,004	7,125,499	1,387,997	651,689	739,127	373,683	71,456	32,282	477,421	10,381,733	20,222,737
1990	1,539,037	4,037,828	5,576,865	725,246	1,325,090	807,824	874,879	209,757	98,770	42,662	351,189	4,084,028	9,660,893
1991	188,063	564,038	752,101	130,079	138,641	480,619	440,221	35,631	22,320	4,335	62,286	1,251,846	2,003,947
1992	168,907	419,822	588,729	129,031	171,209	214,118	299,796	114,508	46,032	5,615	166,155	980,309	1,569,038
1993	397,675	587,678	985,353	266,121	161,469	153,721	292,347	56,918	114,132	8,001	179,051	1,052,709	2,038,062
1994	159,998	248,787	408,765	108,531	113,242	74,755	90,262	31,733	42,415	0	74,148	460,938	869,703
1995	169,581	419,442	589,023	108,716	165,389	162,040	136,931	15,092	89,628	2,203	106,923	679,999	1,269,022
1996	221,986	406,957	628,943	104,838	263,794	293,384	226,226	36,717	99,630	469	136,816	1,025,058	1,654,001
North Mainland													
1987	668,509	2,267,682	2,936,191	622,331	926,344	2,693,481	2,761,800	498,657	101,469	39,646	639,772	7,643,728	10,579,919
1988	3,055,286	861,060	3,916,346	2,592,371	131,758	424,485	1,227,352	922,762	82,755	32,415	1,037,932	5,413,898	9,330,244
1989	4,557,775	1,263,553	5,821,334	4,670,560	251,950	289,575	1,150,687	417,410	105,261	165,459	688,130	7,050,902	12,872,236
1990	7,046,141	3,301,573	10,347,714	5,970,049	2,313,040	806,067	1,470,971	148,847	115,216	36,289	300,352	10,860,479	21,208,193
1991	760,801	1,128,212	1,889,013	605,036	606,408	537,513	948,691	61,666	121,712	4,747	188,125	2,885,773	4,774,786
1992	2,379,002	898,078	3,277,080	2,279,142	224,065	392,813	753,649	108,416	70,078	14,613	193,107	3,842,776	7,119,856
1993	3,812,333	1,022,423	4,834,756	3,215,642	150,137	418,016	820,819	157,189	146,364	36,468	340,021	4,944,635	9,779,391
1994	3,023,459	536,322	3,559,781	2,228,789	554,325	232,786	360,218	143,776	116,170	58,652	318,598	3,694,716	7,254,497
1995	626,581	246,765	873,346	676,801	133,803	61,118	151,268	38,078	49,671	18,653	106,402	1,129,392	2,002,738
1996	4,440,244	390,477	4,830,721	4,282,612	340,128	215,935	341,473	34,667	164,161	21,682	220,510	5,400,658	10,231,379

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Table 3. (Page 3 of 3).

Year	Females			No. Sublegal Males by size (mm)				Recruits	Postrecruit		Total Legal	Total Males	Total Crab
	Juvenile	Adult	Total	<70	70-91	92-114	>114		<165 mm	>164 mm			
South Mainland													
1987	11,393	64,558	75,951	37,975	11,393	37,975	3,798	0	0	0	0	91,141	167,092
GRAND TOTAL													
1987	13,906,688	10,409,430	24,316,118	12,042,252	4,656,314	5,786,921	8,438,786	2,703,910	840,789	260,402	3,805,101	34,729,374	59,045,492
1988	11,449,574	4,020,290	15,469,864	9,964,549	1,369,319	2,744,783	5,028,512	3,997,449	443,932	204,119	4,645,500	23,752,663	39,222,527
1989	24,726,502	12,570,419	37,296,921	22,158,216	5,096,893	5,182,227	6,502,224	3,456,993	770,561	592,360	4,819,914	43,759,474	81,056,395
1990	16,620,199	22,690,162	39,310,361	13,163,283	7,190,782	5,784,022	8,785,225	2,094,366	646,492	258,785	2,999,643	37,922,955	77,233,316
1991	12,724,544	8,606,932	21,331,476	11,063,149	3,181,096	3,678,149	6,059,042	3,808,745	734,995	110,388	4,654,128	28,635,564	49,967,040
1992	8,671,479	6,181,536	14,853,015	7,710,991	2,791,607	2,772,995	4,265,353	1,222,944	1,220,642	108,160	2,551,746	20,082,692	34,935,707
1993	18,757,803	5,040,209	23,798,012	16,868,279	1,753,109	2,172,128	3,550,581	864,271	856,019	101,822	1,822,112	26,166,207	49,964,219
1994	5,876,645	2,929,680	8,806,325	4,497,063	1,634,055	1,176,978	2,098,307	543,740	475,828	75,571	1,095,139	10,501,542	19,307,867
1995	13,954,474	2,796,638	16,751,110	13,135,863	2,419,749	1,144,656	1,279,207	198,861	455,038	25,620	679,519	18,658,994	35,410,104
1996	11,810,222	4,409,239	16,219,461	10,942,349	4,438,659	2,583,980	2,209,049	300,970	639,942	47,854	988,766	21,162,803	37,382,264

Table 4. Relative abundance by weight of the 20 most encountered species captured from a trawl survey of Kodiak Island waters, 1996.

Rank	Common name	Species Name	% of catch by weight
1	Arrowtooth flounder	<i>Atheresthes stomias</i>	31.1%
2	Pollock	<i>Theragra chalcogramma</i>	16.7%
3	Flathead sole	<i>Hippoglossoides elassodon</i>	16.7%
4	Yellowfin sole	<i>Pleuronectes aspera</i>	4.0%
5	Starfish, unid.	Subclass: Asteroidea	3.7%
6	Halibut	<i>Hippoglossus stenolepis</i>	3.5%
7	Pacific cod	<i>Gadus macrocephalus</i>	3.2%
8	Big skate	<i>Raja binoculata</i>	2.9%
9	Tanner crab	<i>Chionoecetes bairdi</i>	2.3%
10	sculpin, unid.	Family: Cottidae	2.1%
11	Dover sole	<i>Microstomus pacificus</i>	1.4%
12	Northern rock sole	<i>Lepidotretta perarciata</i>	1.4%
13	Butter sole	<i>Isopsetta bilineata</i>	1.4%
14	Longnose skate	<i>Raja rhina</i>	0.9%
15	Starry flounder	<i>Platichthys stellatus</i>	0.9%
16	Rex sole	<i>Glyptocephalus zachirus</i>	0.8%
17	sea anemone, unid.	Order: Actinaria	0.7%
18	Alaska/Aleutian skates	<i>Bathyraja</i> spp.	0.7%
19	Alaska Plaice	<i>Pleuronectes quadrituberculatus</i>	0.6%
20	sea urchin	Order: Echinoida	0.6%
all others			4.5%
			100.0%

Table 5. Tanner crab population estimates from trawl surveys in the South Peninsula and Chignik Management Districts, 1988-1996.

Fishing Section	Females			No. Sublegal Males by size (mm)				Recruits	Postrecruit		Total Legal	Total Males	Total Crab				
	Juvenile	Adult	Total	<70	70-91	92-114	>114		<165 mm	>164 mm							
SOUTH PENINSULA DISTRICT																	
Sanak Island																	
1989	1,007,287	116,393	1,123,680	1,087,034	23,924	31,519	64,368	6,836	0	0	6,836	1,213,681	2,337,361				
1990	544,525	102,533	647,058	412,210	80,760	52,532	22,785	0	0	0	0	568,287	1,215,345				
1991	448,105	27,532	475,637	461,396	30,380	34,178	0	0	0	0	0	525,954	1,001,591				
1992	344,623	41,013	385,636	270,952	42,912	45,760	3,798	0	0	0	0	363,422	749,058				
1993	337,216	19,132	356,348	260,565	30,577	37,408	9,998	0	0	0	0	338,548	694,896				
1994	87,847	69,011	156,858	112,055	13,413	18,801	19,823	0	0	0	0	164,092	320,950				
1996	579,289	134,287	713,576	433,898	53,476	29,469	36,368	0	0	0	0	553,211	1,266,787				
Morzhovoi Bay																	
1988	473,143	393,460	866,603	256,652	287,299	245,461	221,888	96,780	30,848	17,019	144,647	1,155,947	2,022,550				
1989	3,840,620	1,173,058	5,013,678	3,214,760	1,373,096	440,767	133,655	42,427	4,949	0	47,376	5,209,654	10,223,332				
1990	2,137,939	1,047,225	3,185,164	1,503,423	663,670	551,967	197,960	25,633	25,542	1,489	52,664	2,969,684	6,154,848				
1991	1,657,718	478,548	2,136,266	1,318,755	426,210	209,931	57,608	15,555	4,667	0	20,222	2,032,726	4,168,992				
1992	364,690	886,270	1,250,960	193,851	455,385	278,843	207,281	39,945	21,471	949	62,365	1,197,725	2,448,685				
1993	72,434	544,697	617,131	18,974	160,368	414,318	368,297	62,370	63,859	949	127,178	1,089,135	1,706,266				
1994	43,583	284,888	328,471	9,922	62,598	132,024	214,544	7,299	49,193	0	56,492	475,580	804,051				
1996	221,620	107,996	329,616	191,235	22,344	14,476	53,533	5,696	31,185	0	36,881	318,469	648,085				
Cold Bay/Belkofski																	
1988	263,424	311,506	574,930	133,813	222,565	234,339	220,235	88,143	32,649	8,520	129,312	940,264	1,515,194				
1989	465,622	55,256	520,878	408,728	54,811	29,720	16,589	3,881	488	0	4,369	514,217	1,035,095				
1990	1,819,773	553,714	2,373,487	1,536,289	526,568	276,381	224,763	88,021	51,348	4,548	143,917	2,707,918	5,081,405				
1991	601,571	588,961	1,190,532	668,699	135,225	223,859	374,770	74,553	110,621	161	185,335	1,587,888	2,778,420				
1992	177,787	174,384	352,171	95,544	110,096	97,452	142,807	39,898	39,104	1,721	80,723	526,422	878,593				
1993	100,302	269,850	370,152	68,373	87,201	156,298	137,850	35,907	18,608	434	54,949	504,671	874,823				
1994	96,033	220,312	316,345	28,880	54,379	64,115	75,642	27,345	10,266	1,258	38,869	261,885	578,230				
1996	339,068	15,337	354,405	266,412	62,717	40,124	30,565	24,165	2,530	201	26,896	426,714	781,119				
Pavlof/Volcano																	
1988	438,378	879,351	1,317,729	351,825	213,743	527,769	473,115	211,734	88,807	79839	380,380	1,946,832	3,264,561				
1989	1,193,787	1,898,744	3,092,531	752,840	448,297	374,030	447,775	121,787	80,943	17669	220,399	2,243,341	5,335,872				
1990	1,138,250	2,110,361	3,248,611	823,545	574,445	631,345	345,196	62,129	125,646	18957	206,732	2,581,263	5,829,874				

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Table 5. (2 of 4).

Fishing Section	Females			No. Sublegal Males by size (mm)				Recruits	Postrecruit		Total Legal	Total Males	Total Crab
	Juvenile	Adult	Total	<70	70-91	92-114	>114		<165 mm	>164 mm			
Pavlof/Volcano (cont.)													
1991	440,000	549,233	989,233	398,020	76,496	276,907	273,133	38,822	89,006	3039	130,867	1,155,423	2,144,656
1992	206,620	387,633	594,253	96,109	162,427	150,644	164,303	32,774	52,064	0	84,838	658,321	1,252,574
1993	115,627	201,551	317,178	71,677	168,723	494,229	230,544	44,414	27,416	1925	73,755	1,038,928	1,356,106
1994	40,819	123,378	164,197	25,438	50,672	91,918	143,134	54,379	28,337	0	82,716	393,878	558,075
1996	391,494	55,285	446,779	367,493	40,122	31,041	52,307	14,841	9,517	992	25,350	516,313	963,092
Beaver/Balboa/Unga Strait													
1988	123,769	76,533	200,302	106,816	66,274	50,497	22,020	5,399	10,364	0	15,763	261,370	461,672
1989	129,353	247,345	376,698	141,019	56,566	48,228	30,418	0	6,059	0	6,059	282,290	658,988
1990	373,873	479,216	853,089	384,768	40,079	155,649	89,422	16,441	6,615	0	23,056	692,974	1,546,063
1991	337,522	188,765	526,287	313,050	36,940	56,286	51,489	5,058	1,127	0	6,185	463,950	990,237
1992	73,138	128,905	202,043	80,582	30,326	47,470	20,585	564	2,026	0	2,590	181,553	383,598
1993	9,322	43,753	53,075	16,876	7,062	28,751	29,838	3,164	4,361	0	7,525	90,052	143,127
1994	10,118	29,294	39,412	9,240	4,361	11,329	25,120	2,254	5,938	0	8,192	58,242	97,654
1996	716,832	5,415	722,247	746,234	10,645	9,232	4,541	905	460	0	1,365	772,017	1,494,264
West Nagai													
1989	263,853	202,990	466,843	307,542	136,756	71,670	23,766	2,101	5,383	0	7,484	547,218	1,014,061
1990	223,997	36,745	260,742	228,844	17,172	17,328	5,913	0	908	0	908	270,165	530,907
1991	212,474	24,805	237,279	236,403	6,002	6,002	18,007	3,813	0	0	3,813	270,227	507,506
1992	24,726	33,234	57,960	13,306	8,516	19,137	8,255	0	3,165	0	3,165	52,379	110,339
1993	19,405	4,835	24,240	16,141	9,946	74,494	14,797	908	0	0	0	908	116,286
1994	20,348	24,860	45,208	8,615	24,858	29,968	27,774	8,468	0	0	8,468	99,683	144,891
1996	50,747	4,706	55,453	40,628	7,431	16,597	20,148	0	908	0	908	85,712	141,165
Stepovak													
1989	369,775	129,844	499,619	327,572	19,700	18,217	4,025	0	0	0	0	369,514	869,133
1990	891,103	138,654	1,029,757	992,870	7,256	28,929	19,636	8,266	6,158	0	14,424	1,063,115	2,092,872
1991	225,164	24,116	249,280	273,356	8,175	30,978	13,539	0	8,171	0	8,171	334,219	583,499
1992	286,231	26,900	313,131	255,298	7,249	31,206	7,802	2,013	0	0	2,013	303,568	616,699
1993	27,147	4,177	31,324	35,652	2,013	5,092	4,025	0	3,079	0	3,079	49,861	81,185
1994	30,462	2,013	32,475	32,303	0	0	0	0	0	0	0	32,303	64,778
1996	158,463	0	158,463	158,924	6,038	2,013	6,038	0	0	0	0	0	173,013
													331,478

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Table 5. (page 3 of 4.)

Fishing Section	Females			No. Sublegal Males by size (mm)				Recruits		Postrecruit		Total Legal	Total Males	Total Crab
	Juvenile	Adult	Total	<70	70-91	92-114	>114	<165 mm	>164 mm					
SOUTH PENINSULA TOTALS (cont.)														
1988	1,298,714	1,660,850	2,959,564	849,106	789,881	1,058,066	937,258	402,056	162,668	#####	670,102	4,304,413	7,263,977	
1989	7,270,297	3,823,630	11,093,927	6,239,495	2,113,150	1,014,151	720,596	177,032	97,822	17,669	292,523	10,379,915	21,473,842	
1990	7,129,460	4,468,448	11,597,908	5,881,949	1,909,950	1,714,131	905,675	200,490	216,217	24,994	441,701	10,853,406	22,451,314	
1991	3,922,555	1,881,961	5,804,516	3,669,679	719,429	838,141	788,545	137,801	213,591	3,200	354,592	6,370,386	12,174,902	
1992	1,477,816	1,678,339	3,156,155	1,005,643	816,910	670,511	554,631	111,193	235,659	2,671	349,523	3,397,218	6,553,373	
1993	681,454	1,087,994	1,769,448	488,259	465,890	1,210,591	795,350	146,764	117,323	3,308	267,395	3,227,485	4,996,933	
1994	329,210	753,755	1,082,965	226,452	210,281	348,155	506,035	99,746	93,734	1,258	194,738	1,485,661	2,568,626	
1996	2,457,513	323,027	2,780,540	2,204,825	202,773	142,952	203,500	45,608	44,601	1,193	91,402	2,845,452	5,625,992	
CHIGNIK DISTRICT														
Ivanof														
1989	502,222	266,214	768,436	451,363	139,929	782,548	739,638	336,765	12,413	12,413	361,591	2,475,069	3,243,505	
1990	883,810	32,971	916,781	1,040,228	14,699	108,905	250,741	108,961	0	0	108,961	1,523,534	2,440,315	
1991	360,136	1,476	361,612	349,152	0	0	1,723	7,136	0	738	7,874	358,749	720,361	
1992	32,735	2,215	34,950	37,240	1,969	984	5,028	4,119	1,282	738	6,139	51,360	86,310	
1993	54,793	1,625	56,418	27,817	41,776	9,880	2,751	0	395	0	395	82,619	139,037	
1994	44,186	12,094	56,280	13,569	22,612	12,866	3,832	984	246	0	1,230	54,109	110,389	
1995	60,450	3,832	64,282	72,813	2,848	492	2,461	2,707	492	0	3,199	81,813	146,095	
1996	72,588	699	73,287	73,697	41,649	6,890	7,871	8,754	0	0	8,754	138,861	212,148	
Mitrofania														
1989	193,422	510,311	703,733	201,538	155,170	637,889	315,908	42,526	17,719	21,263	81,508	1,392,013	2,095,746	
1990	280,518	49,611	330,129	226,831	147,864	178,760	224,330	81,523	22,790	6,582	110,895	888,680	1,218,809	
1991	491,176	51,907	543,083	469,640	113,946	89,887	96,212	87,350	5,064	2,532	94,946	864,631	1,407,714	
1992	290,955	6,875	297,830	219,423	36,769	6,451	14,620	17,153	0	2,532	19,685	296,948	594,778	
1993	133,718	17,870	151,588	76,188	68,542	37,635	15,337	18,459	9,047	653	28,159	225,861	377,449	
1994	48,370	8,682	57,052	32,122	19,976	14,992	6,150	13,384	2,532	0	15,916	89,156	146,208	
1995	221,670	39,309	260,979	258,696	13,475	46,293	32,346	27,261	0	2,532	29,793	380,603	641,582	
Chignik Bay														
1989	672,315	450,163	1,122,478	660,618	89,843	81,938	174,032	40,159	13,229	0	53,388	1,059,819	2,182,297	
1990	1,650,408	423,973	2,074,381	1,330,223	112,046	133,699	445,000	83,477	77,931	1,387	162,795	2,183,763	4,258,144	
1991	1,119,262	486,770	1,606,032	1,065,392	98,759	48,866	131,640	67,386	66,421	0	133,807	1,478,464	3,084,496	
1992	1,150,083	323,334	1,473,417	1,307,665	91,362	69,122	34,071	0	14,828	0	14,828	1,517,048	2,990,465	

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Table 5. (Page 4 of 4.)

Fishing Section	Females			No. Sublegal Males by size (mm)				Recruits	Postrecruit		Total Legal	Total Males	Total Crab
	Juvenile	Adult	Total	<70	70-91	92-114	>114		<165 mm	>164 mm			
Chignik Bay (Cont.)													
1993	823,018	216,258	1,039,276	790,570	467,458	307,173	186,929	22,190	60,687	3,285	86,162	1,838,292	2,877,568
1994	235,448	135,863	371,311	72,104	520,864	514,182	143,525	28,567	32,314	949	61,830	1,312,505	1,683,816
1995	173,571	93,530	267,101	206,860	3,191	52,921	174,183	82,082	14,528	0	96,610	533,765	800,866
1996	1,007,659	128,777	1,136,436	995,237	34,926	44,795	249,658	263,870	72,615	0	336,485	1,661,101	2,797,537
Kujulik													
1989	83,550	13,089	96,639	78,148	722	9,150	11,386	931	0	0	931	100,337	196,976
1990	394,255	122,744	516,999	380,715	2,193	10,486	10,206	2,525	0	0	2,525	406,125	923,124
1991	8,256	949	9,205	14,470	0	0	0	0	0	0	0	14,470	23,675
1992	108,457	18,988	127,445	129,874	760	760	3,038	0	1,519	0	1,519	135,951	263,396
1993	107,646	16,184	123,830	100,150	81,074	29,658	1,367	0	0	0	0	212,249	336,079
1994	7,736	3,190	10,926	9,141	7,322	4,952	6,471	0	2,279	0	2,279	30,165	41,091
1995	851	28,922	29,773	2,772	0	911	456	0	0	0	0	4,139	33,912
1996	231,502	7,595	239,097	188,334	0	0	0	0	0	0	0	188,334	427,431
CHIGNIK DISTRICT TOTALS													
1989	1,451,509	1,239,777	2,691,286	1,391,667	385,664	1,511,525	1,240,964	420,381	43,361	33,676	497,418	5,027,238	7,718,524
1990	3,208,991	629,299	3,838,290	2,977,997	276,802	431,850	930,277	276,486	100,721	6,582	383,789	5,000,715	8,839,005
1991	1,978,830	541,103	2,519,933	1,898,654	212,706	138,753	229,574	161,872	71,486	3,270	236,628	2,716,315	5,236,248
1992	1,582,231	351,412	1,933,643	1,694,201	130,859	77,317	56,757	21,271	35,259	3,270	59,800	2,018,934	3,952,577
1993	1,119,174	251,937	1,371,111	994,727	658,849	384,345	206,384	40,648	70,129	3,939	114,716	2,359,021	3,730,132
1994	335,740	159,829	495,569	126,937	570,773	546,992	159,978	42,936	37,371	949	81,256	1,485,936	1,981,505
1995	456,542	165,594	622,136	541,142	19,515	100,618	209,445	112,050	15,020	2,532	129,602	1,000,322	1,622,458
1996	1,311,749	137,071	1,448,820	1,257,268	76,575	51,685	257,530	272,624	72,615	0	345,239	1,988,297	3,437,117

Table 6. Relative abundance by weight of the 20 most encountered species captured from a trawl survey of Alaska Peninsula area waters, 1996.

Rank	Common name	Species Name	% of catch by weight
1	Flathead sole	<i>Hippoglossoides elassodon</i>	25.5%
2	Yellowfin sole	<i>Pleuronectes aspera</i>	18.9%
3	Arrowtooth flounder	<i>Atheresthes stomias</i>	17.3%
4	Pollock	<i>Theragra chalcogramma</i>	11.4%
5	Pacific cod	<i>Gadus macrocephalus</i>	4.1%
6	Halibut	<i>Hippoglossus stenolepis</i>	3.5%
7	Northern rock sole	<i>Lepidopsetta perarciata</i>	3.4%
8	sea anemone, unid.	Order: Actinaria	3.0%
9	Alaska Plaice	<i>Pleuronectes quadrituberculatus</i>	2.5%
10	Starfish, unid.	Subclass: Asteroidea	1.9%
11	sculpin, unid.	Family: Cottidae	1.6%
12	Big skate	<i>Raja binoculata</i>	1.3%
13	Starry flounder	<i>Platichthys stellatus</i>	1.3%
14	Tanner crab	<i>Chionoecetes bairdi</i>	0.6%
15	hermit crab	Family: Paguridae	0.6%
16	Southern rock sole	<i>Lepidopsetta bilineata</i>	0.6%
17	Ribbed Neptune snail	<i>Neptunea lyrata</i>	0.5%
18	sea urchin	Order: Echinoida	0.2%
19	Butter sole	<i>Isopsetta bilineata</i>	0.2%
20	Dungeness crab	<i>Cancer magister</i>	0.2%
	all others		1.3%
			100.0%

Table 7. Bitter crab sample results from Alitak Bay, 1991-1996.

STN	BCS SAMPLING RESULTS											
	1991		1992		1993		1994		1995		1996	
	Sample size	percent positive	Sample size	percent positive	Sample size	percent positive	Sample size	percent positive	Sample size	percent positive	Sample size	percent positive
ALA	30	6.7	30	0.0	30	3.5	29	0.0	29	0.0	30	0.0
ALB	24	23.8	28	8.7	11	0.0	no sample		no sample		no sample	
ALC	29	0.0	30	0.0	30	13.3	29	3.4	30	0.0	30	3.3
ALD	30	0.0	29	0.0	30	3.3	9	11.1	1	0.0	20	0.0
ALF	30	6.7	29	0.0	30	10.0	17	0.0	28	0.0	29	6.9
ALG	30	3.3	30	3.4	30	3.4	28	10.7	18	11.1	4	0.0
ALH	30	3.3	30	10.0	30	6.7	30	3.3	30	6.7	30	0.0
ALI	30	13.3	30	6.7	30	6.7	30	3.3	30	0.0	30	0.0
ALJ	28	10.7	30	3.3	30	3.3	30	16.7	14	7.7	19	0.0
ALK	17	41.2	15	20.0	30	6.7	9	55.6	2	50.0	7	0.0
ALL	30	6.7	28	7.1	30	3.3	30	3.3	30	3.3	30	0.0
ALM	27	48.1	3	33.3	30	6.7	6	0.0	5	0.0	4	0.0
ALO	28	42.9	30	24.1	30	13.3	30	0.0	29	0.0	30	10.0
ALP	30	60.0	29	37.9	30	26.7	30	23.3	30	23.3	30	23.3
ALQ	30	60.0	29	27.6	30	16.7	30	3.3	29	36.7	29	31.0
ALR	30	33.3	29	24.1	30	10.0	30	3.3	21	0.0	30	13.3
TOTALS	453	16.0	424	18.1	461	7.9	367	5.2	326	7.8	352	6.6

Table 8. Prevalence of bitter crab syndrome in Alitak Bay, 1991-1996.

STN	BCS POPULATION						STATION POPULATION					
	1991	1992	1993	1994	1995	1996	1991	1992	1993	1994	1995	1996
ALA	1,475	0	83,142	0	0	0	22,010	21,600	2,375,473	9,570	10,527	156,123
ALB	1,041	349	0			0	4,375	4,010	5,312	0	0	790
ALC	0	0	337,756	577	0	2,844	156,715	78,213	2,539,517	132,121	56,880	85,307
ALD	0	0	3,391	577	0	0	185,865	109,095	102,745	5,195	1,154	13,276
ALF	35,156	0	46,994	0	0	2,376	524,723	136,345	469,941	17,089	26,583	34,451
ALG	2,820	899	9,735	4,153	2,054	0	85,459	26,431	286,332	38,765	18,501	3,524
ALH	5,772	5,640	9,136	2,404	2,487	0	174,913	56,400	136,361	72,107	37,124	95,667
ALI	9,504	4,146	7,767	8,718	0	0	71,461	61,884	115,930	261,534	81,775	290,281
ALJ	16,520	2,228	67,734	8,577	772	0	154,391	67,504	2,052,534	51,464	10,025	13,367
ALK	3,267	1,762	20,719	2,753	734	0	7,929	8,810	309,238	4,956	1,468	3,084
ALL	2,987	4,015	3,826	1,850	2,513	0	44,586	56,543	115,930	55,494	76,153	52,497
ALM	9,959	713	25,639	0	0	0	20,704	2,142	382,666	4,284	3,570	2,856
ALO	34,198	29,687	18,413	0	0	3,722	79,716	123,183	138,442	56,355	68,051	37,216
ALP	56,142	91,237	69,726	11,710	13,279	19,848	93,570	240,731	261,146	50,188	56,993	85,064
ALQ	39,427	64,094	42,191	2,844	17,795	29,105	65,712	232,225	252,640	85,330	48,486	93,783
ALR	99,228	65,675	25,651	1,086	0	10,821	297,982	272,509	256,514	32,583	12,441	81,160
TOTALS	317,496	270,445	771,820	45,249	39,634	68,716	1,990,111	1,497,625	9,800,721	877,035	509,732	1,048,444

Prevalence	16.0%	18.1%	7.9%	5.2%	7.8%	6.6%
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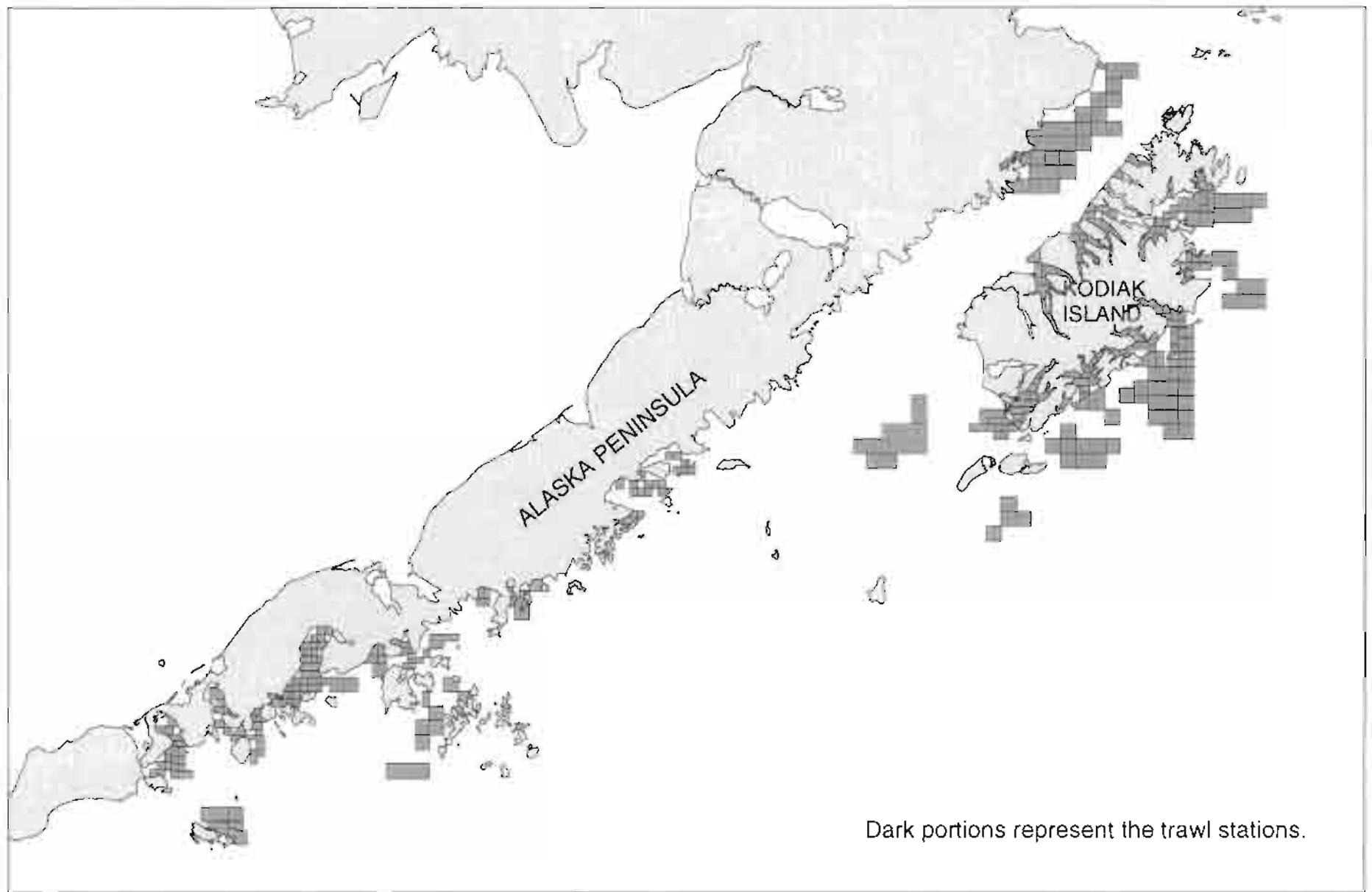


Figure 1. Areas surveyed during the 1996 Westward Region trawl survey.

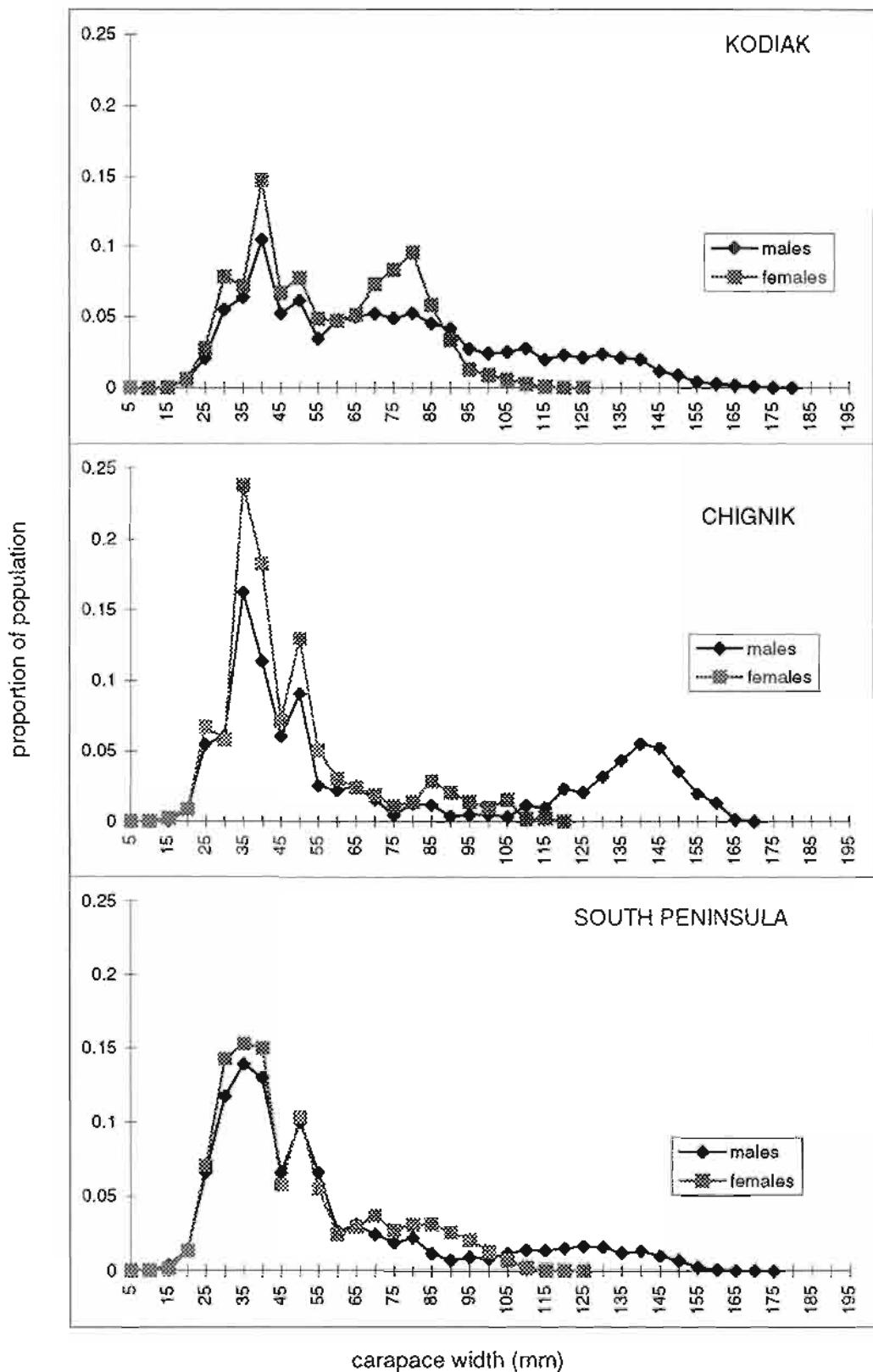


Figure 2. Carapace width frequency of male and female Tanner crab captured during the 1996 Westward Region trawl survey.

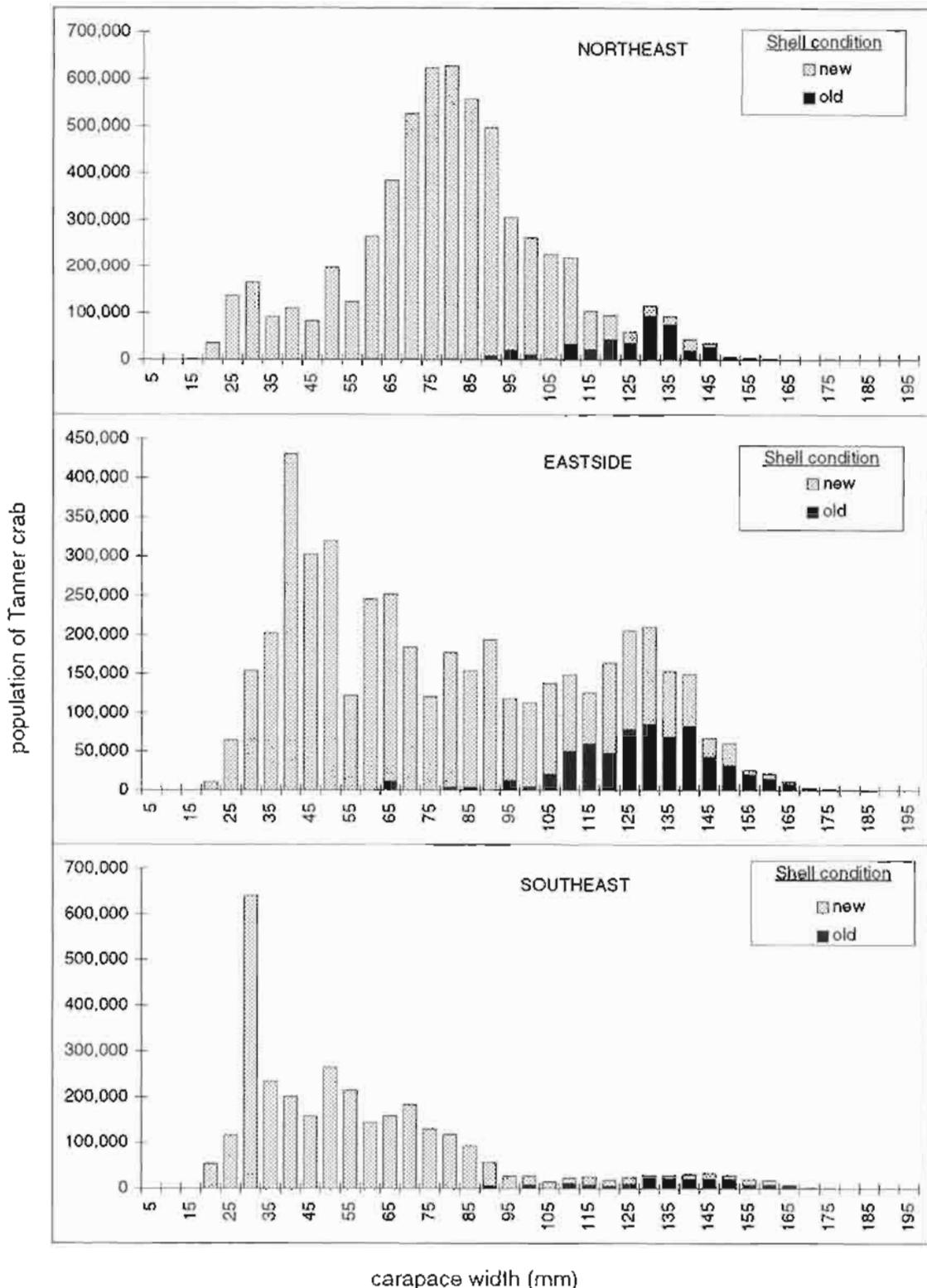


Figure 3. Stacked bar graphs of carapace width frequency by shell condition of the estimated population of male Tanner crab from the Northeast, Eastside, and Southeast Sections of Kodiak Island taken during the 1996 survey.

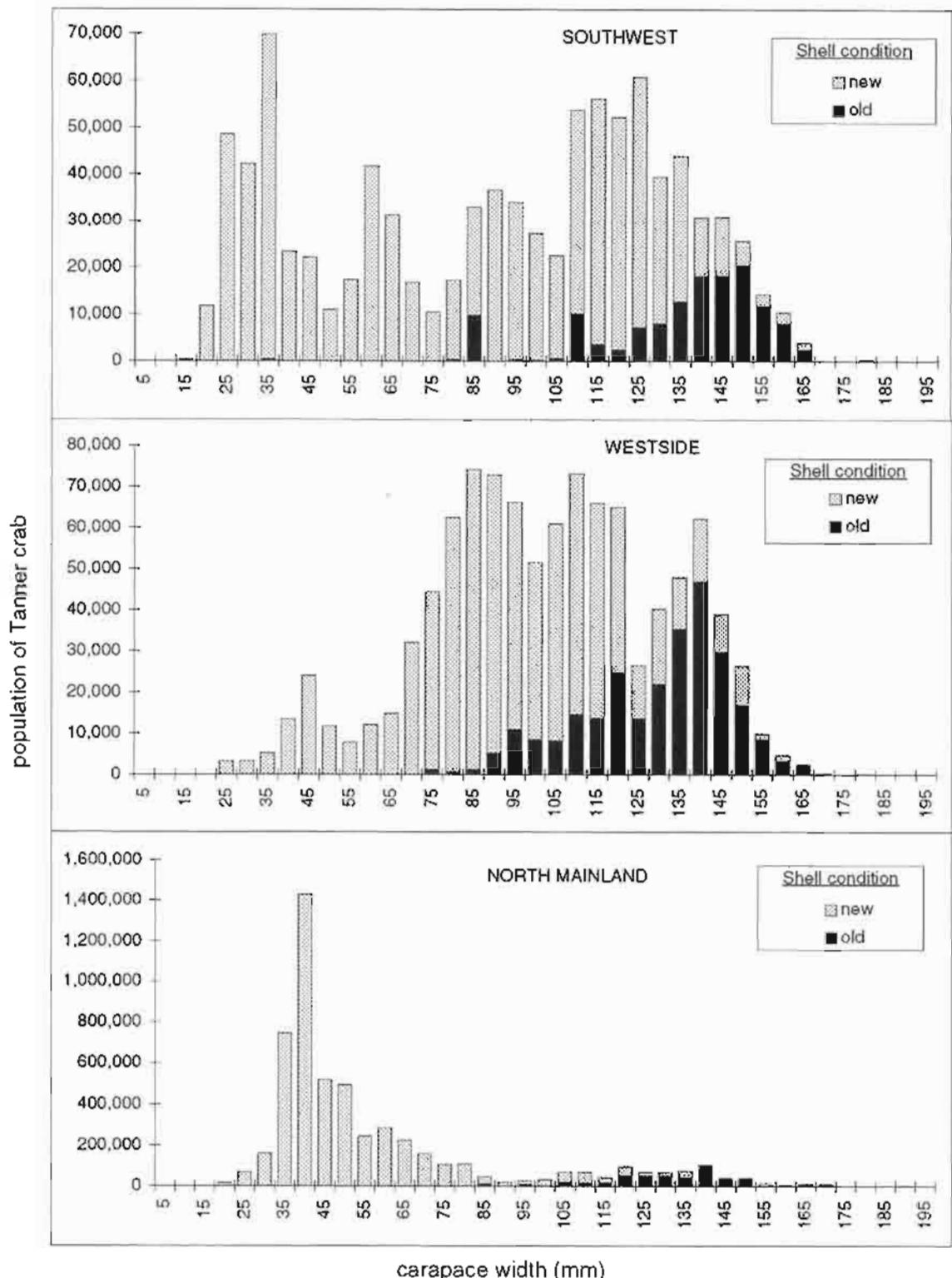


Figure 4. Stacked bar graphs of carapace width frequency by shell condition of the estimated population of male Tanner crab from the Southwest, Westside, and North Mainland Sections of Kodiak Island taken during the 1996 trawl survey.

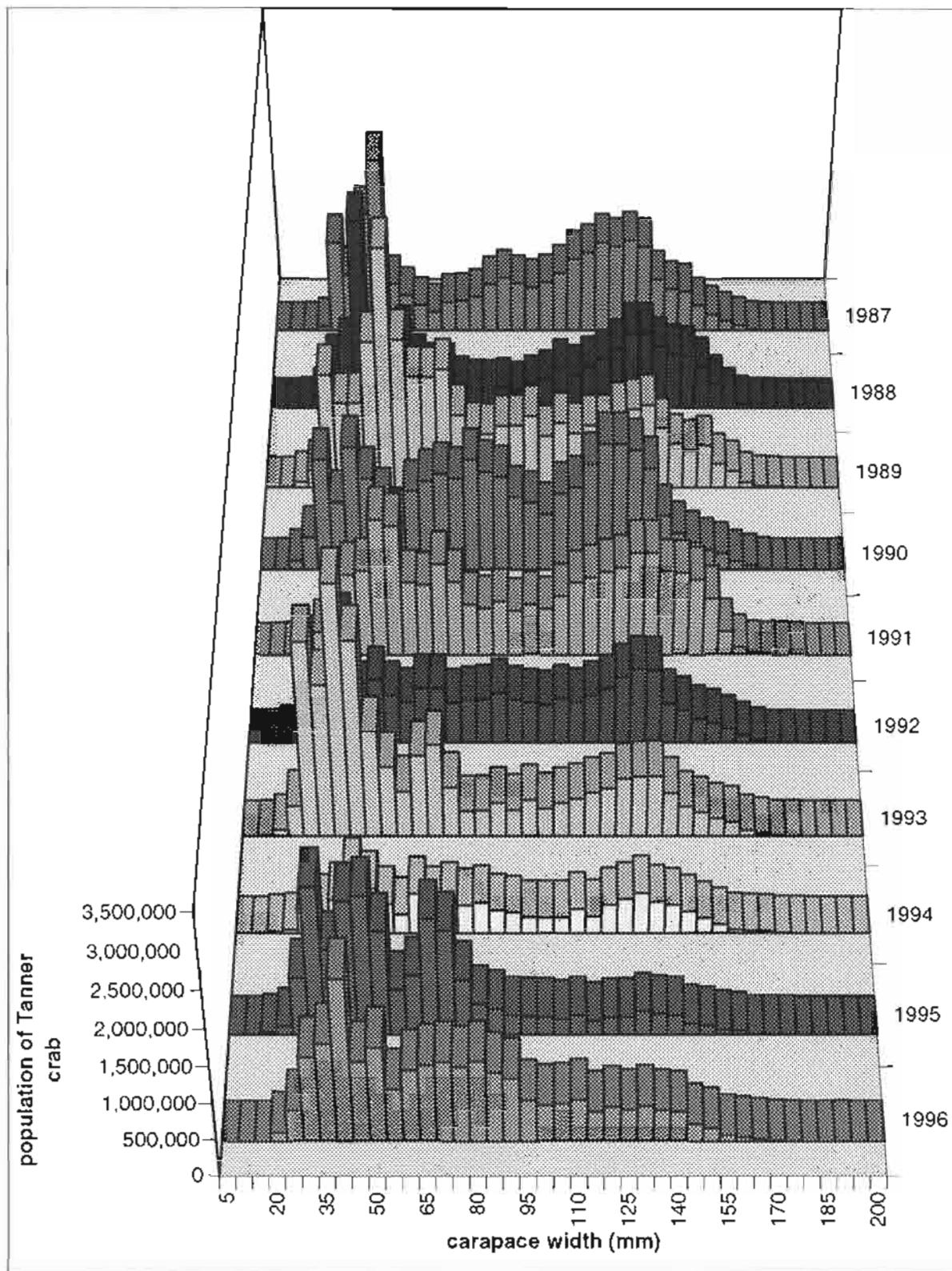


Figure 5. Population of male Tanner crab by carapace width, 1987-1996.

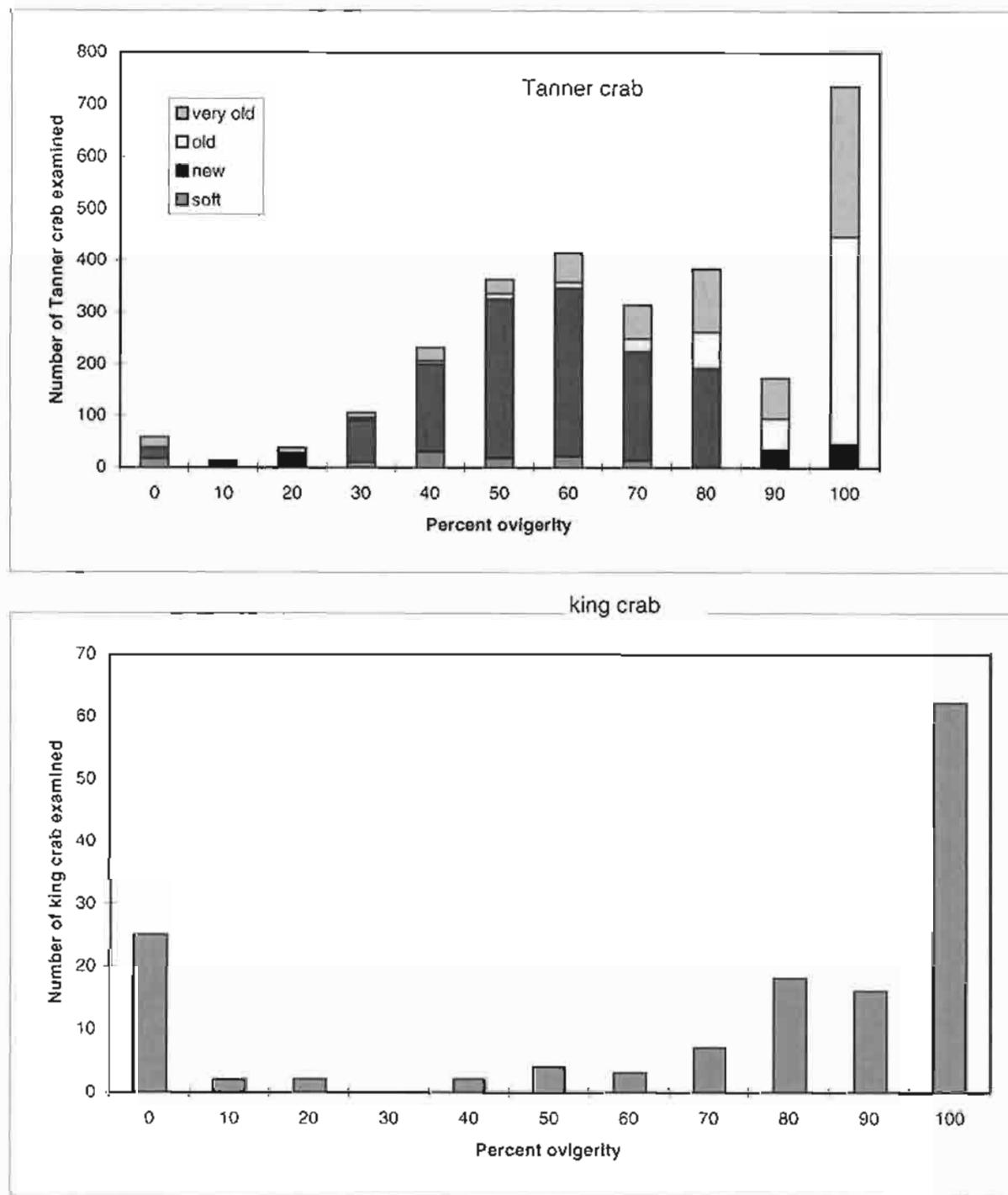


Figure 6. Percent ovigarity of king and Tanner crab captured during the Kodiak trawl survey, 1995. Tanner crab ovigarity is presented as a stacked bar graph of shell ages.

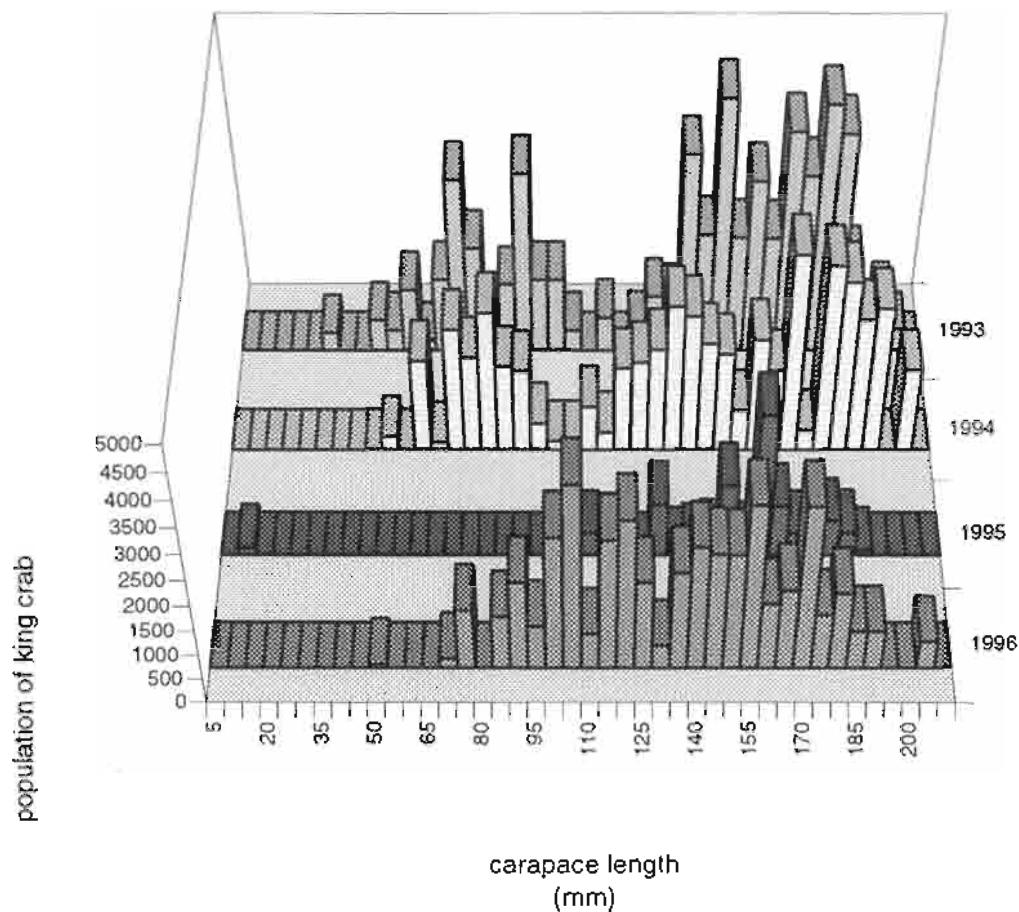


Figure 7. Male king crab population by carapace width from a trawl survey of the Kodiak area, 1993-1996.

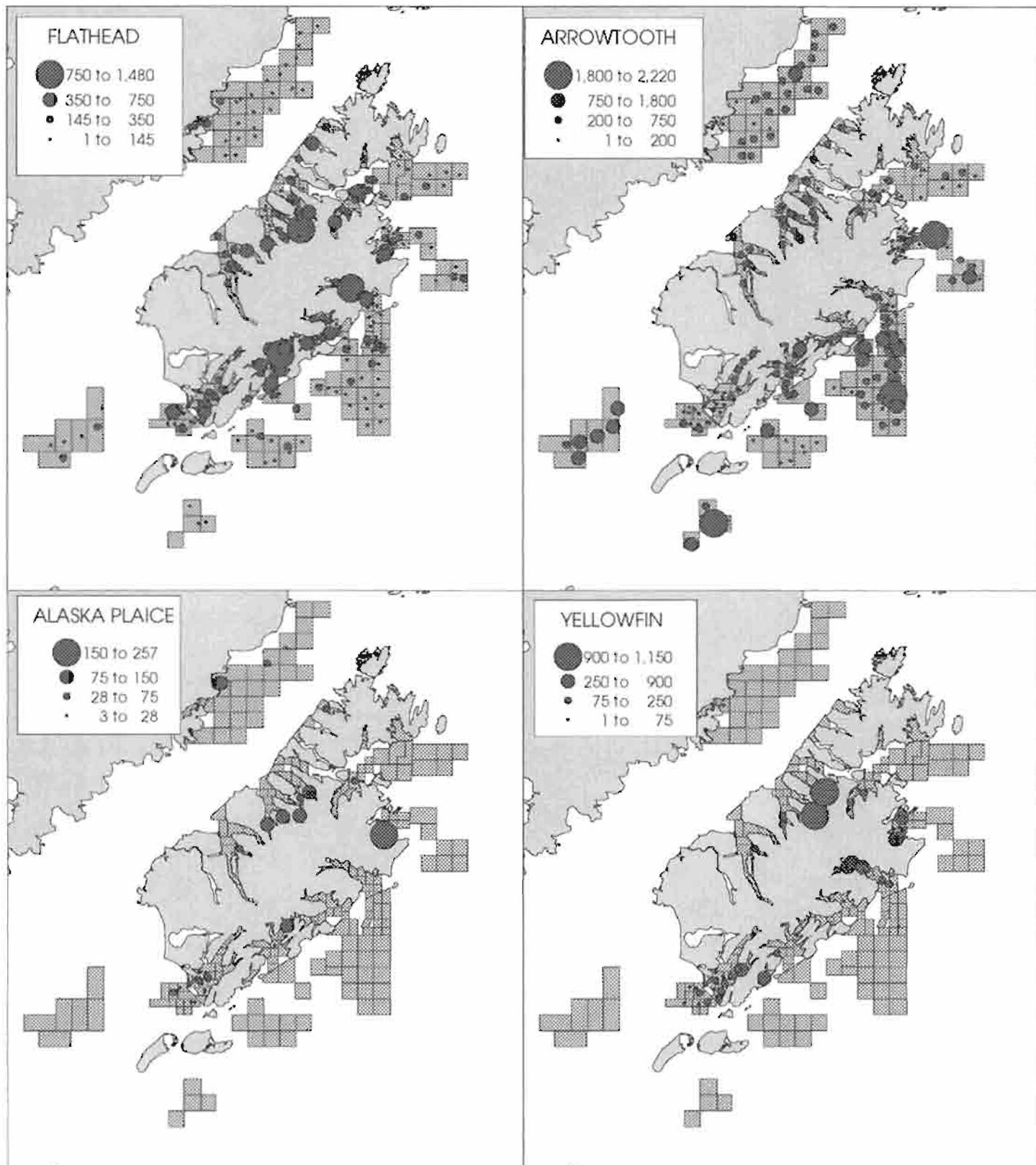


Figure 8. Trawl stations and plotted catch (dots) of arrowtooth flounder, flathead sole, yellowfin sole, and Alaska plaice in kilograms/kilometer from the 1996 Kodiak trawl survey.

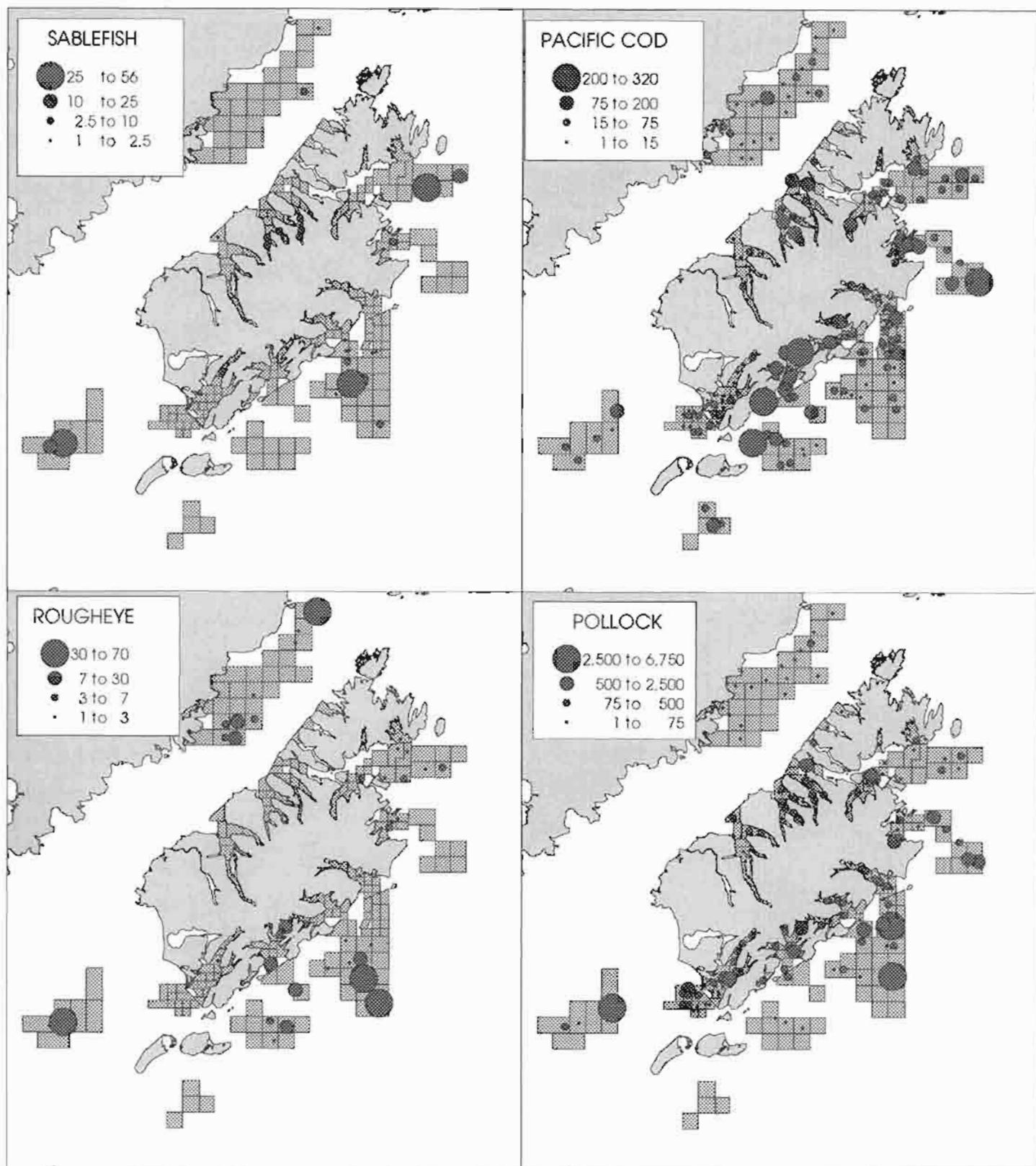


Figure 9. Trawl stations and plotted catch (dots) of sablefish, Pacific cod, pollock, and rougheye rockfish in kilograms/kilometer from the 1996 Kodiak trawl survey.

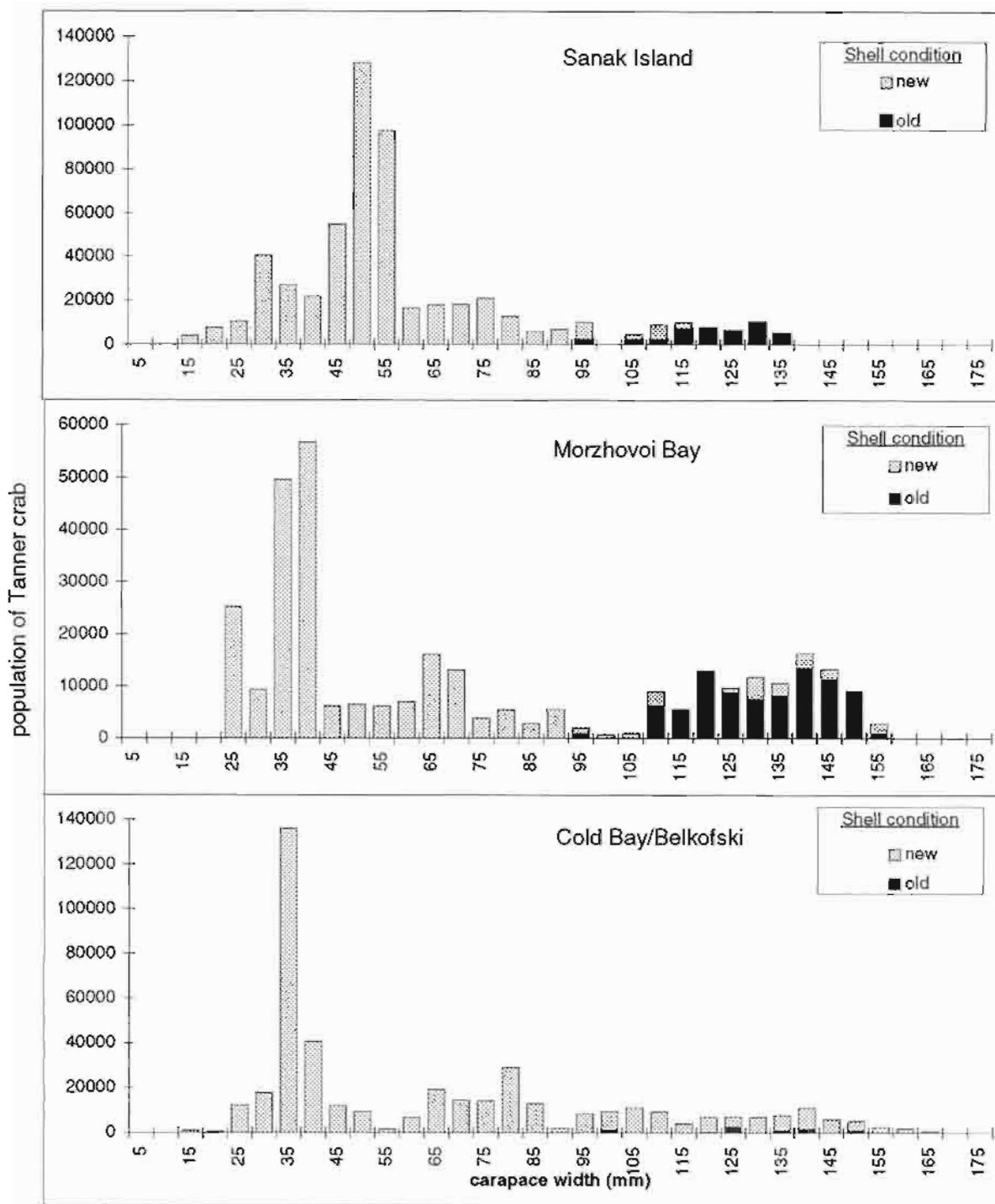


Figure 10. A stacked bar graph of carapace width frequency by shell condition of the estimated population of male Tanner crab from Sanak Island, Morzhovoi Bay, and Cold Bay/Belkofski Bay, Alaska Peninsula trawl survey 1996.

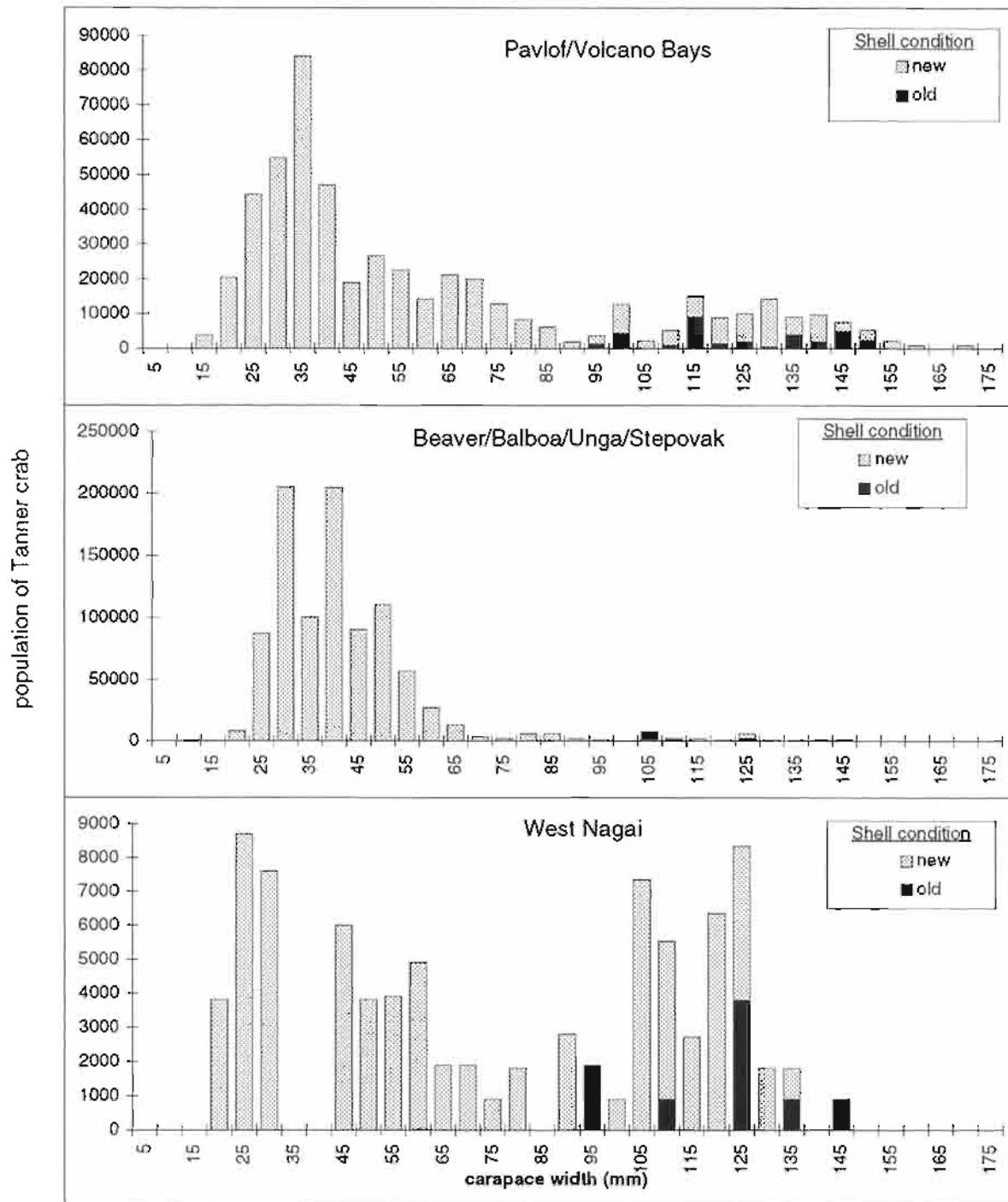


Figure 11. A stacked bar graph of carapace width frequency by shell condition of the estimated population of male Tanner crab from Pavlof/Volcano, Beaver/Balboa/Unga/Stepovak, and West Nagai, Alaska Peninsula trawl survey 1996.

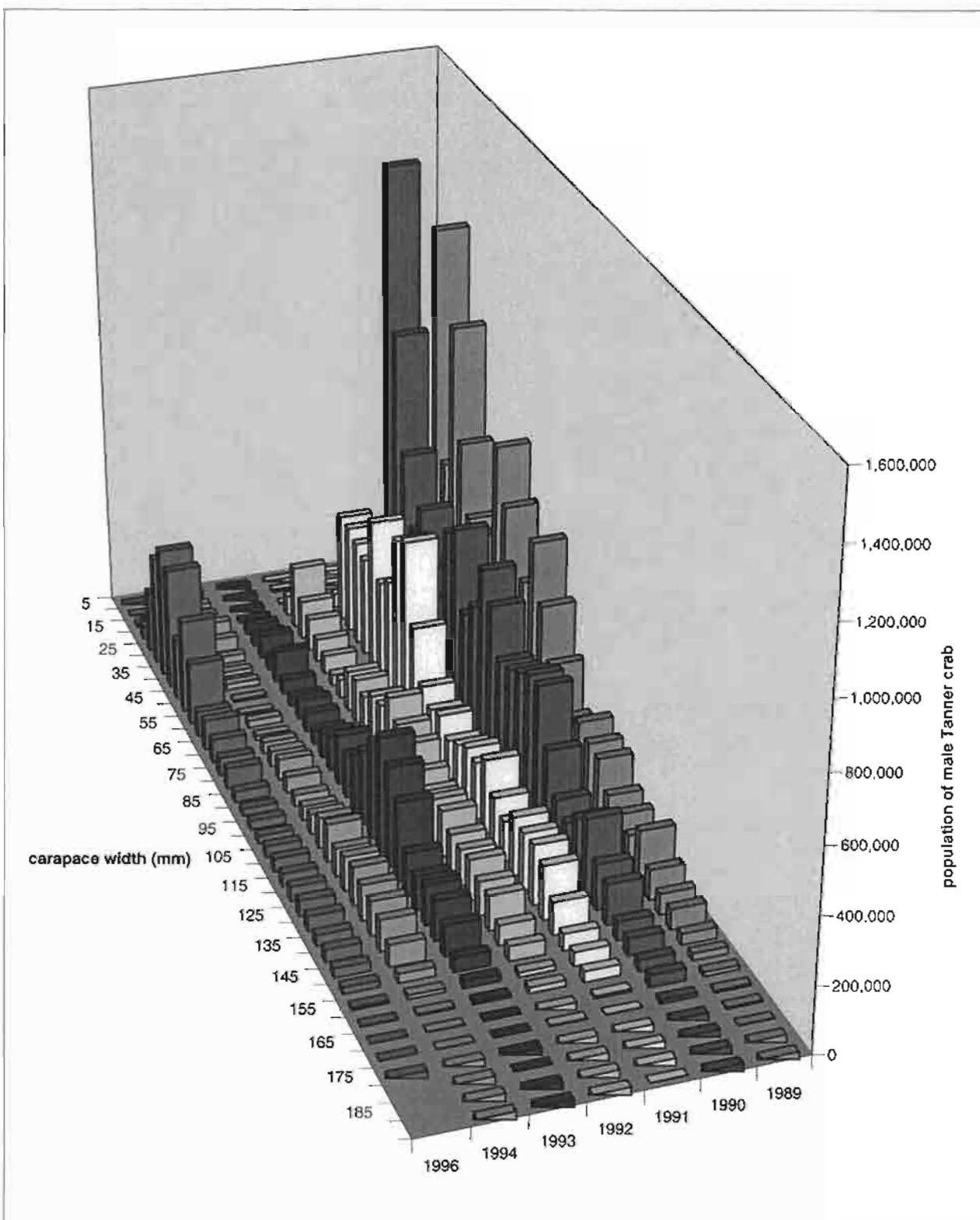


Figure 12. Population of male Tanner crab by carapace width in the South Peninsula Management District, 1989-1996.

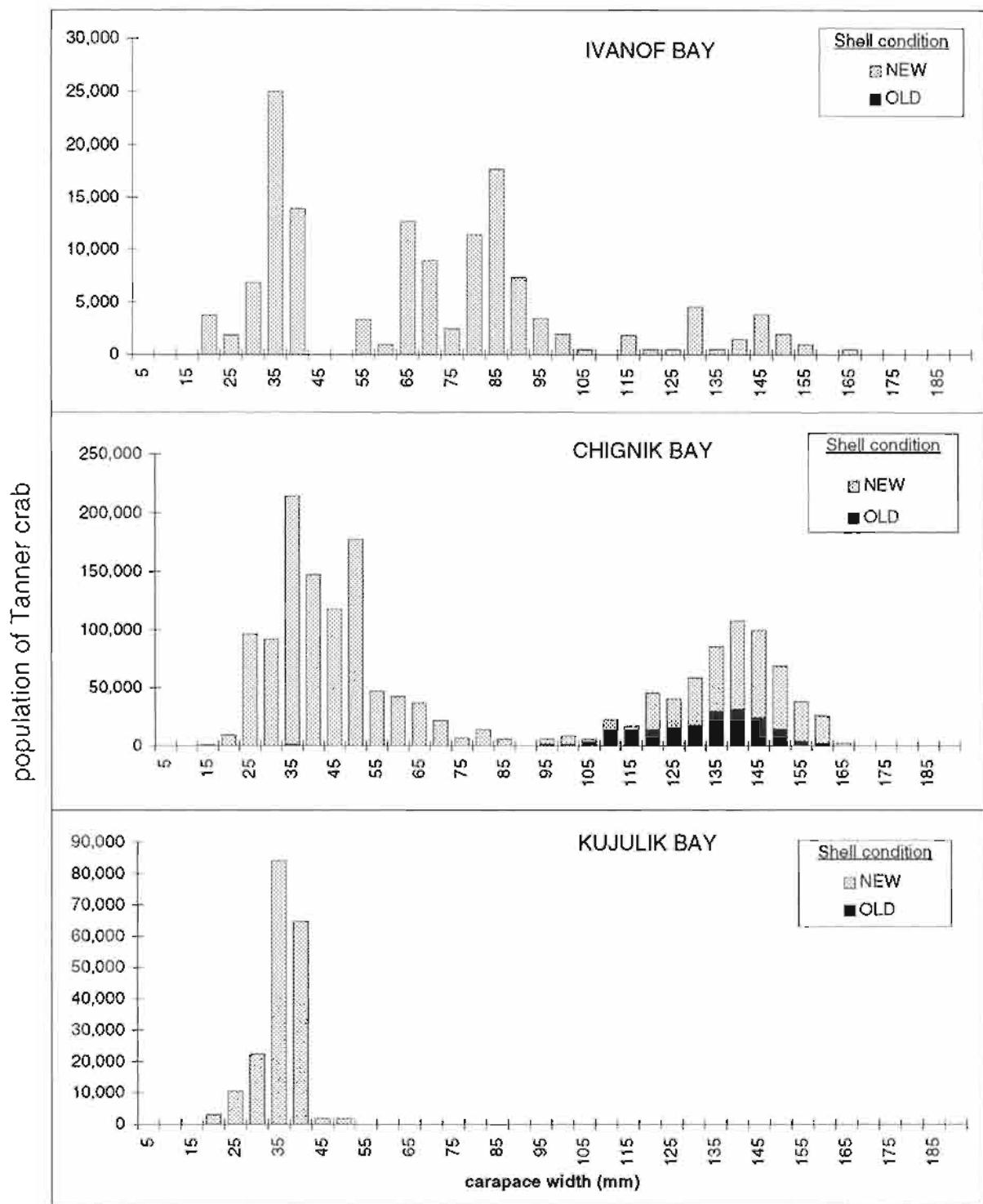


Figure 13. Stacked bar graphs of carapace width frequency by shell condition of the estimated population of male Tanner crab from Ivanof, Chignik, and Kujulik Bays taken during a trawl survey, 1996.

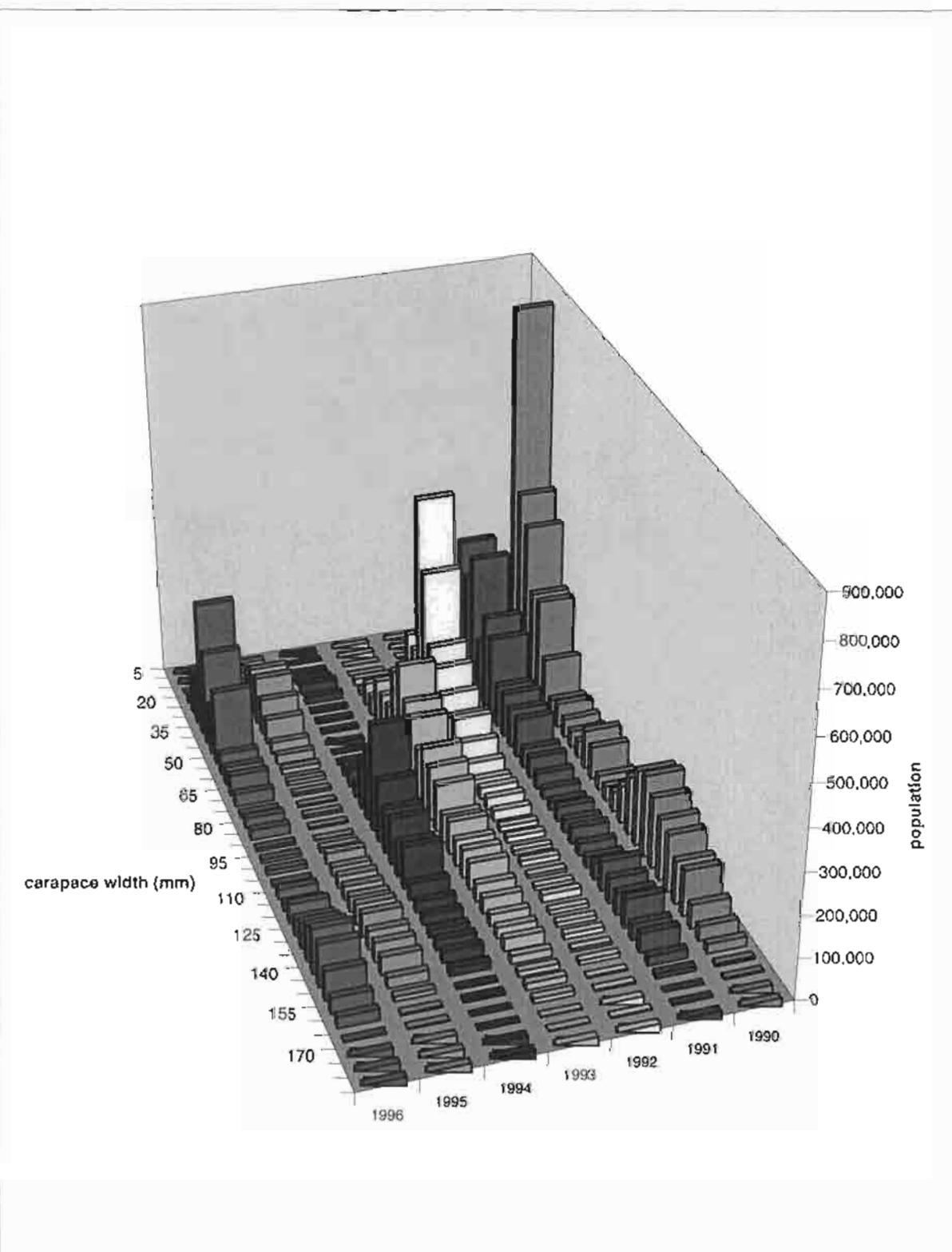


Figure 14. Population of male Tanner crab by carapace width in the Chignik Management District, 1990-1996.

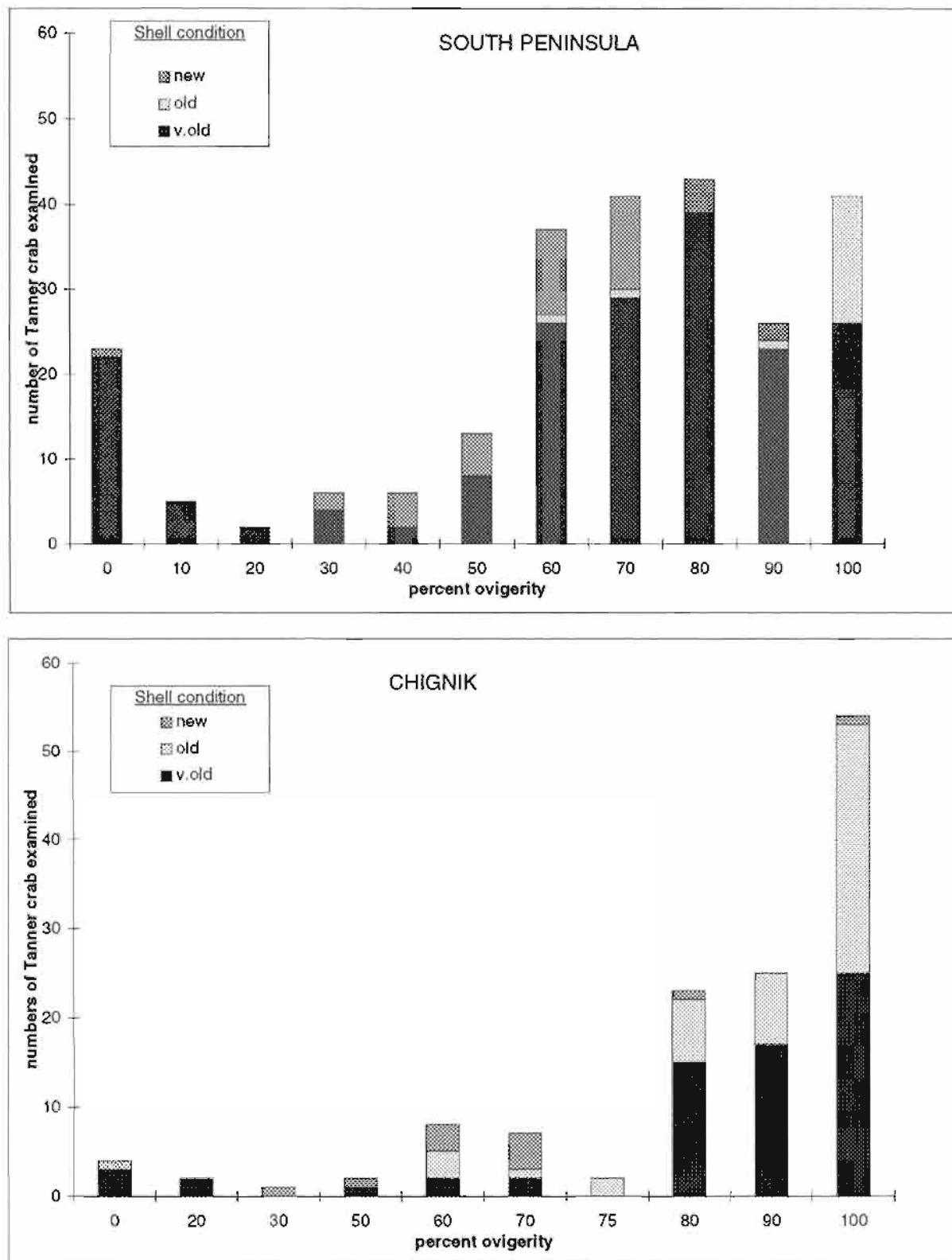


Figure 15. Percent ovigarity by shell age of Tanner crab captured during the Alaska Peninsula trawl survey, 1996.

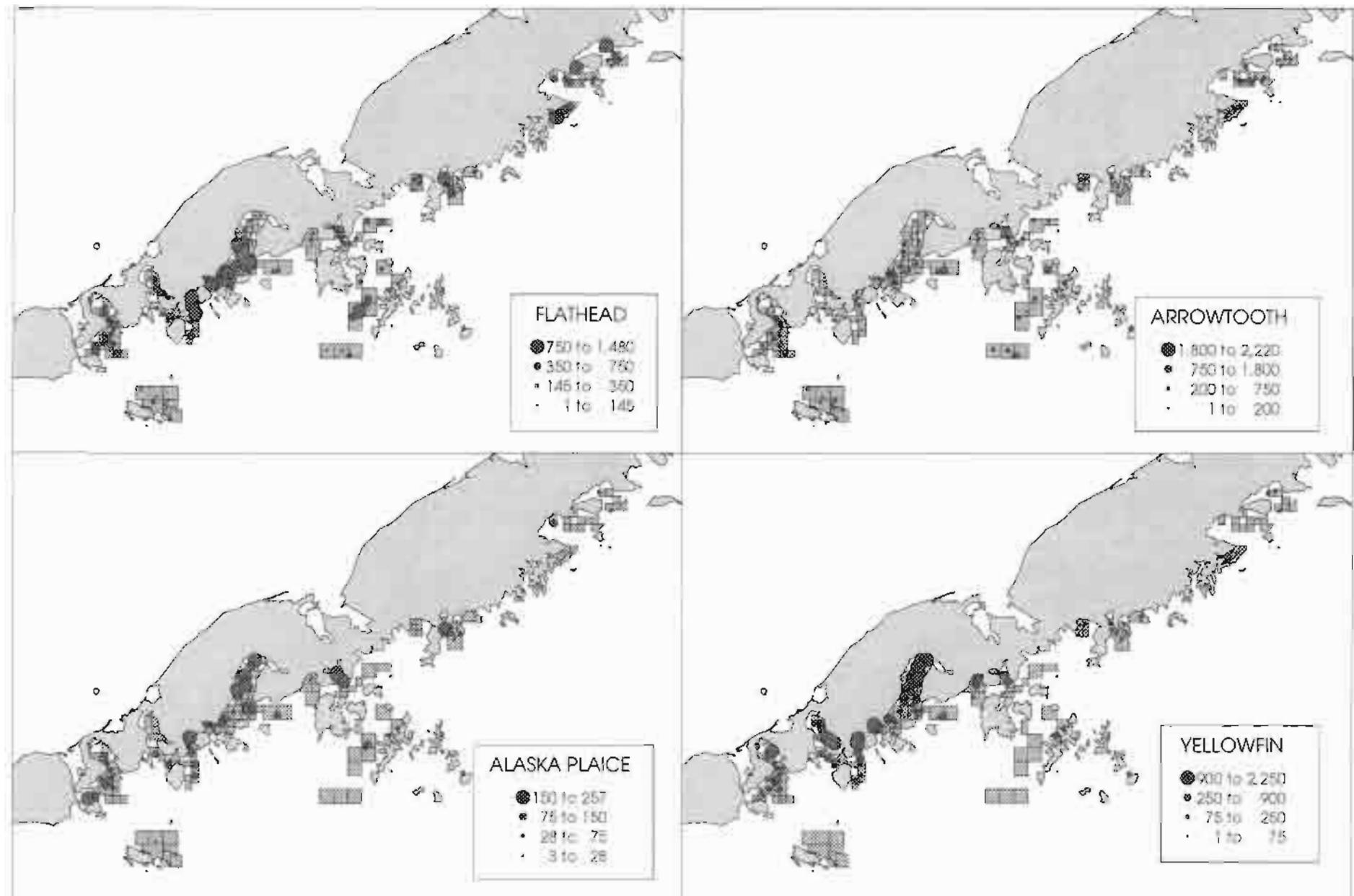


Figure 16. Catch of flathead sole, yellowfin sole, arrowtooth flounder, and Alaska Plaice in kilograms per kilometer from the 1996 Alaska Peninsula trawl survey. Surveyed areas shown in dark gray.

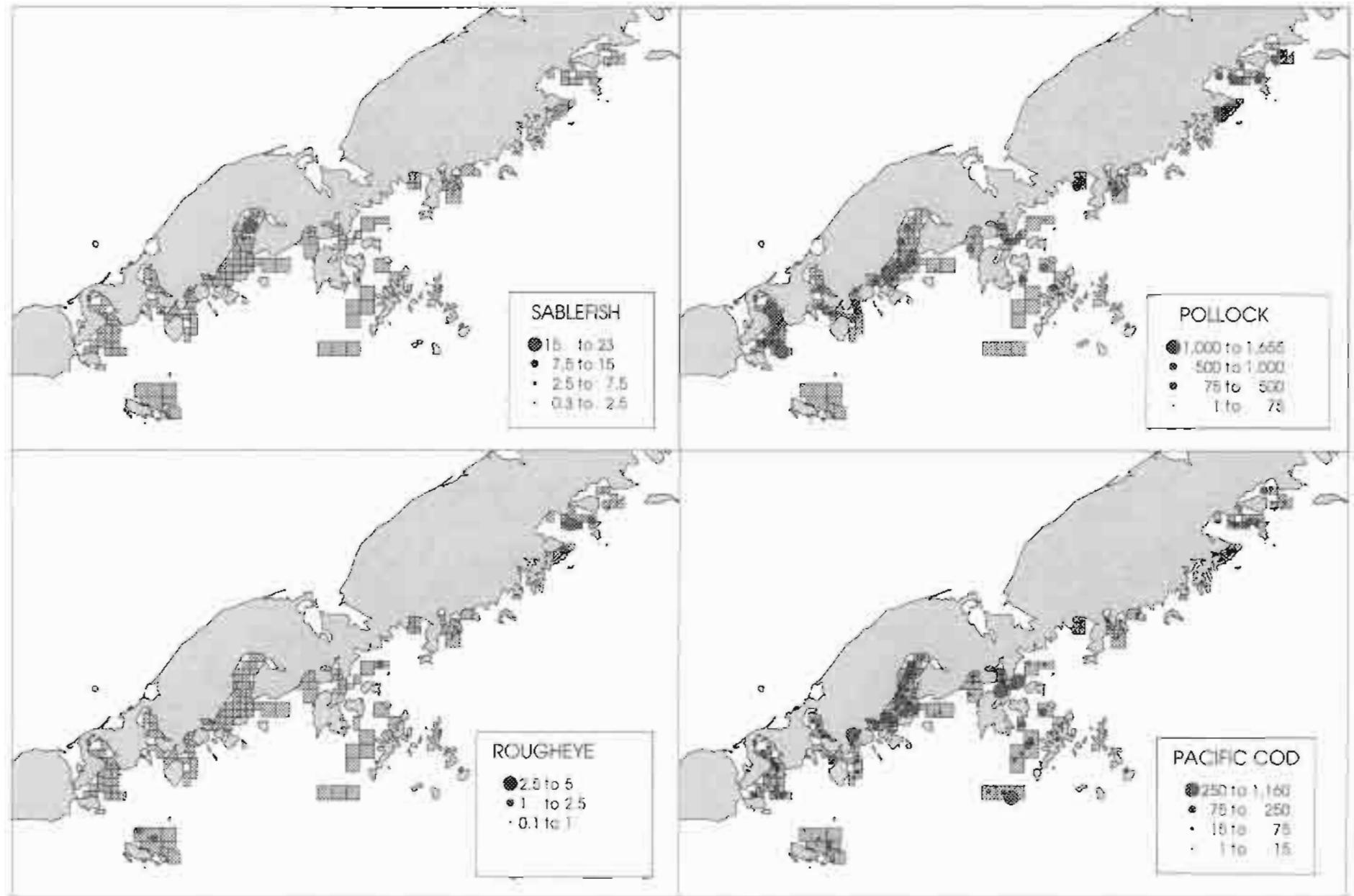


Figure 17. Catch of sablefish, pollock, rougheye rockfish, and Pacific cod in kilograms per kilometer from the 1996 Alaska Peninsula trawl survey. Surveyed areas shown in dark gray.

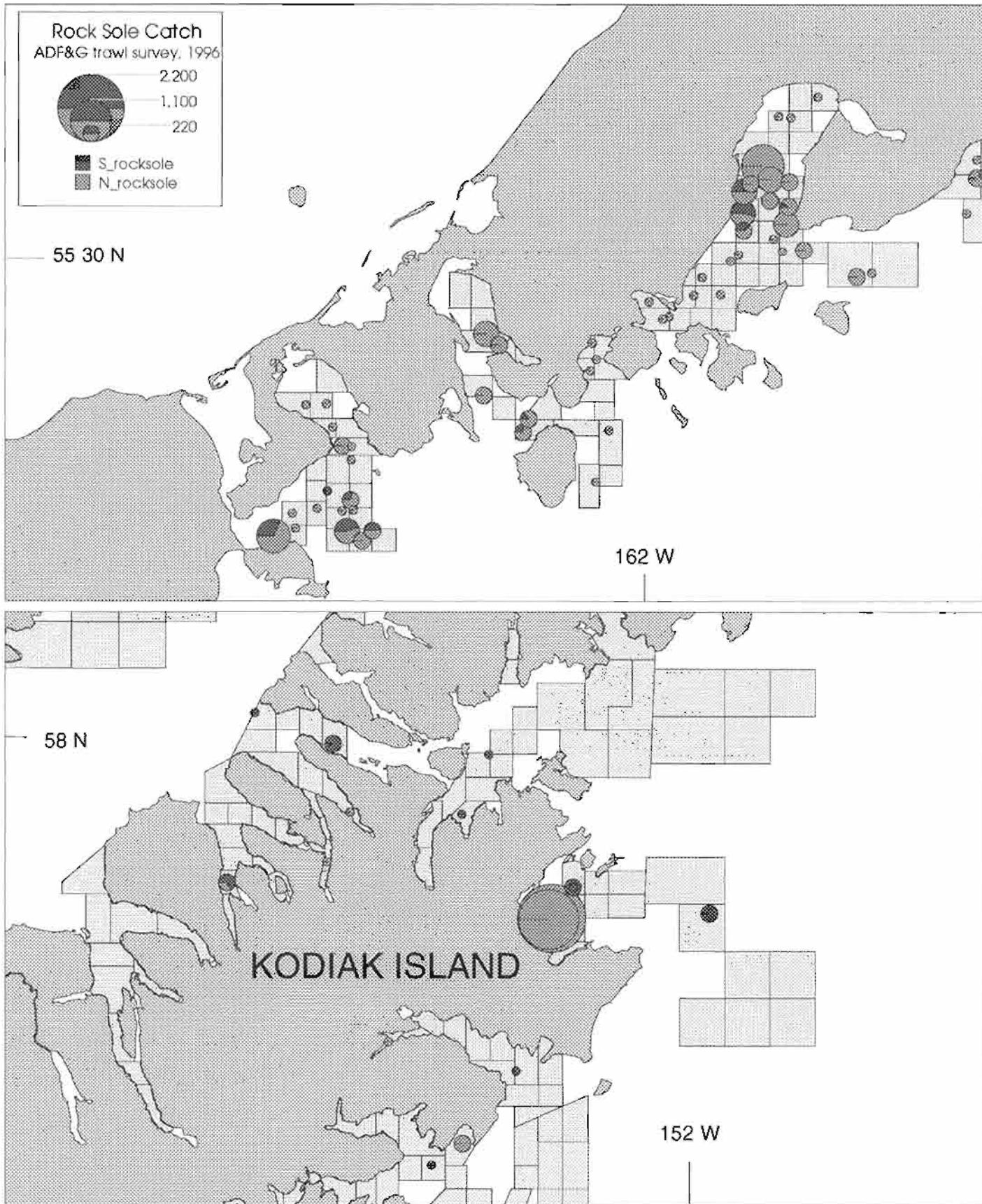


Figure 18. Northern and southern rocksole catches in kilograms per kilometer in the western Alaska Peninsula and northern Kodiak Island areas, 1996.

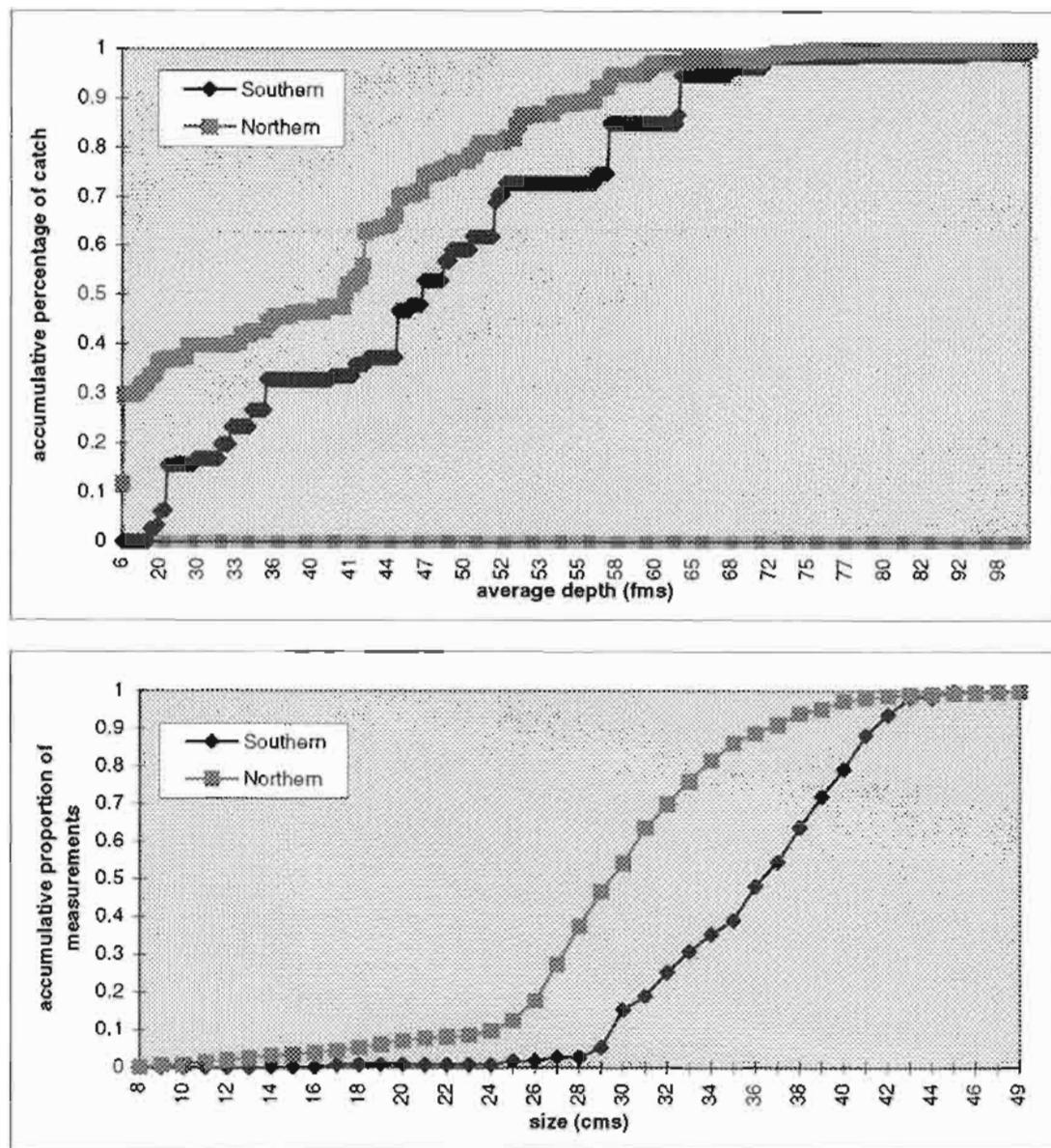


Figure 19. Comparison of southern and northern rock sole lengths and catch by depth from a trawl survey of Kodiak and Alaska Peninsula waters, 1996.

APPENDIX

Appendix A. Explanation of terms and acronyms.

The following definitions were developed for characterizing Tanner crab, *Chionoecetes bairdi*, examined in this report.

Newshell	Hard exoskeletal animal; the dorsal side of the carapace brownish-red; no apparent scratching on ventral side; epifauna absent or limited; and dactyli, pterygostomial and branchial spines sharp.
Oldshell	An apparent skip molt; carapace hard and brownish; thoracic sternum and ventral sides of legs with numerous scratches and abrasions; dactyli, pterygostomial and branchial spines worn; epifauna may be present.
Very Oldshell	An obvious skip molt; carapace hard, dark brown to blackish; thoracic sternum and ventral side of legs with multiple scratches and abrasions; underside of legs usually dark yellow-brown; dactyli, pterygostomial and branchial spines heavily worn; epifauna usually present: e.g., large barnacles.
Molting	Physiological events immediately preceding shedding the old shell and the actual extraction from the old shell itself.
Skip Molt	A crab which has retained its exoskeleton (not molted) for more than 12 months.
Crab Measurements	Crab measurements are made in millimeters with a vernier calipers and refer to carapace width (CW) inside the spines, however legal size is measured outside the spines.
Prerecruit IV	Male Tanner crab less than or equal to 69 mm in carapace width and four or more molts from attaining legal size. Note that this group includes prerecruit IV, V and VI and younger crabs but are referred to a prerecruit IV's herein.
Prerecruit III	Male Tanner crab 70-91 mm in carapace width and three molts from attaining legal size.
Prerecruit II	Male Tanner crab 92-114 mm in carapace width and two molts from attaining legal size.
Prerecruit I	Male Tanner crab 115-139 mm in carapace width and one molt from attaining legal size.

-Continued-

Appendix A. (page 2 of 3)

Recruit Legals	Newshell male Tanner crab 140-164 mm in carapace width, recruited to legal size in year of capture.
Postrecruit Legals	Male crab that have been legal size at least one year; defined as oldshells and very oldshells 140-164 mm and all males >164 mm in carapace width.
Total Legals	All male Tanner crab >139 mm in carapace width outside the spines.
Females	Identified as adult or immature by visual observation of abdominal flap.
Primiparous female	A new shell female which has just undergone it's molt to maturity.

The following definitions were developed for characterizing king crab, *Paralithodes camtschaticus*, examined in this report.

Carapace Length	The straight line distance across the carapace from the posterior margin of the right eye orbit to the medial-posterior margin of the carapace.
Legal Size	The Board of Fisheries sets the legal size of king crab. In the Kodiak Management Area, legal size is set at seven inches (178 mm) or greater in width of shell. In the Alaska Peninsula and Dutch Harbor Management Areas, legal size is set at 6 1/2 inches (165 mm). Measurements are made including the spines, as the straight line distance across the carapace at a right angle to a line midway between the eyes to the midpoint of the posterior portion of the carapace.
Juvenile Females	Nonovigerous females with carapace lengths of less than 116 mm.
Adult, Mature Females	Ovigerous and nonovigerous females with carapace lengths greater than 115 mm.
Adult, Mature Males	Male king crabs with carapace lengths greater than 130 mm.
Newshell Males	Individuals that molted during the last molting season (generally January through April).
Oldshell Males	(Skipmolt) Individuals that failed to molt during last molting season.

-Continued-

Appendix A. (page 3 of 3)

Very Oldshell Males	(Double Skipmolts) Individuals that failed to molt during the last two or more molting seasons.
Prerecruit IV	Individuals estimated to be 4 or more years from legal size and less than 95 mm in length in the Kodiak Management Area, less than 79 mm in the Alaska Peninsula and Dutch Harbor Management Areas.
Prerecruit III	Individuals estimated to be 3 years from legal size and 95-112 mm in length in the Kodiak Management Area, and 79-95 mm in the Alaska Peninsula and Dutch Harbor Management Areas.
Prerecruit II	Individuals estimated to be 2 years from legal size and 113-130 mm in length in the Kodiak Management Area, and 96-115 mm in the Alaska Peninsula and Dutch Harbor Management Areas.
Prerecruit I	Individuals estimated to be 1 year from legal size which includes all sublegals greater than 130 mm in length in the Kodiak Management Area, and greater than 116 mm in length in the Alaska Peninsula and
Recruits	Newshell males which are legal size and are in their first year of availability to the fishery which includes crabs less than or equal to 164 mm in length in the Kodiak Management Area, and less than or equal to 152 mm in length in the Alaska Peninsula and Dutch Harbor Management Areas.
Postrecruit	Males which are legal size and old shell or very old shell or males which are of greater length than recruit crab.

Appendix B. Fishing log and catch data from the Westward Region Trawl Survey, 1996. Temperatures when available in degrees Celsius.

Location	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Month/Day/Year	N.E.KOD														
Station	CHA	CHA	CHA	CHB	CHB	CHJ	CHJ	CHB	CHF	CHK	283	284	257	256	255
Longitude Start	152 25.8	152 26.2	152 27.0	152 23.6	152 21.5	152 23.0	152 22.9	152 22.4	152 19.8	152 18.6	151 58.9	151 48.9	151 39.8	151 47.4	151 57.0
Latitude Start	57 37.1	57 37.1	57 36.3	57 38.4	57 40.0	57 43.8	57 43.8	57 39.7	57 41.2	57 43.1	57 59.7	58 0.1	58 3.4	58 4.2	58 3.3
Heading, Degrees	34	37	46	37	215	120	120	47	36	280	90	70	270	270	270
Average Depth (m)	51	46	22	73	91	95	95	101	139	150	170	139	157	146	132
Distance Fished (km)	1.9	1.9	0.9	1.9	1.9	1.9	1.9	1.9	1.9	1.7	1.7	1.9	1.9	1.9	1.9
Bottom Temperature	7.4	7.4	7.8	6.8	6.7	6.6	6.8	6.4	6.3	6.3	5.6	5.9	6	5.9	6
-----kilograms/kilometer-----															
Pollock	0	95.4	0	94	0	108.2	36.8	0	0	0	46	28	0	48.7	17
Pacific Cod	32.1	17.8	4.1	7.8	4.1	34.6	28.6	24.7	12.1	15	18.6	20.3	30.2	88.9	22.6
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0.4	0.2	0.3
Rougheye Rockfish	0	0	0	0	0	0	0	0	2.6	1	0.7	1.6	0	0	0
Thornyhead Rockf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	8.1	0.2
Sablefish	0	0	0	0	0	0	0	0	0	3.2	14.9	0	7.9	0	0
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	36.4	70.8	32	54.4	1.9	222	244.8	54.6	60.2	74.9	0	0	0	0	0
Other Roundfish	29.5	21.5	4	5	20	2.8	1.8	1.3	5.7	10.7	0	1.3	2.2	0.9	0
TOTAL ROUNDFISH	97.9	205.6	40.1	161.2	26	367.5	312	80.7	80.6	104.7	80.2	51.2	40.7	146.8	40.1

Arrowtooth Flndr	102.8	33.9	8	19.8	85.3	227.5	82.8	40.9	163	190.4	95.5	55.9	93.1	144.2	191.7
Flathead Sole	102.8	246.3	71.9	343.9	331.6	144.3	88.3	251.1	127.9	74.9	83.5	27.1	13.5	23.4	57.3
Rock Sole	21.4	0	8	0	0	83.2	18.4	0	0	0	0	0	0	0	0
Rex Sole	0	0	0	0	1.9	0	0	0	0	0	0	17.2	5	12.1	0
Dover Sole	0	0	0	0	0	0	0	0	0	0	0	10.9	10.7	85.2	28.7
Pac Halibut	3.8	0	0.9	0	0	49.1	19.3	10.6	4.2	42.7	10.8	23.6	19.7	20.8	29.1
Starry Flndr	0	0	0	0	0	0	0	43.7	0	0	0	0	0	0	0
Yellowtail Sole	475.2	351	120	118.7	121.3	166.5	92	27.3	0	0	0	0	0	0	0
Other Flatfish	38.6	86.2	32	150.9	0	0	27.3	0	0	0	0	0	0	0	0
TOTAL FLATFISH	744.5	717.3	240.7	633.4	540	670.6	300.9	400.8	295.1	307.9	189.8	134.6	142	285.8	306.8

Skates	141	27.8	222.9	36.9	27.9	0	16.4	4.6	0	35.3	79.3	2.3	24.6	21.9	8.1
Spiny Dogfish	0	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Elasmobrth	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	0.2	0.1	0.2	0.4	2.6	0	0.1	6.5	84.2	294.2	2.4	0.1	0.1	0.1	0.9
Red King Crab	22.9	0.2	0	28.6	1.5	0	0	0	0	2.7	0	0	0	0	0
Dungeness Crab	0.3	13	122.6	1.6	0	0.5	0.4	0	0	0	0	0	0	0	0
Shrimp	0	0	0	1.2	7.6	0	0.9	2.8	2.5	0	0.8	0.4	0	0.5	0
Scallop	0	0	3.8	0.1	0	0	2.2	0	0	0	0.2	0	0	0	0.2
Other Inverts	36.4	40	81.3	24.8	1.9	22.1	25.8	2.7	1.2	62.2	29.8	2.1	5.7	12.1	3.6
TOTAL INVERTS	59.8	53.2	207.9	56.7	13.5	22.7	29.3	11.9	87.9	359.1	33.2	2.5	5.7	12.7	4.6
Other	0	36.2	0	5	3.8	5.6	23.9	1.3	1.2	5.3	0.8	3.1	0.4	0.5	0
TOTAL CATCH(kg/km)	1043.2	1042	711.6	893.2	611.2	1066.3	682.5	499.4	464.9	812.3	383.3	193.8	213.3	467.6	359.7

----Continued----

Appendix B. (Page 2 of 25)

Haul	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
Location	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	
Month/Day/Year	6/20/96	6/21/96	6/21/96	6/21/96	6/21/96	6/21/96	6/21/96	6/21/96	6/22/96	6/22/96	6/22/96	6/22/96	6/22/96	6/22/96	6/22/96	
Station	MOLX	MOXX	MOPX	MOGX	MONX	KZO	KZR	KZS	KZK	KZJ	KZG	KZF	KZE	KZC	KZC	
Longitude Start	152 9.4	152 13.4	152 14.8	152 11.4	152 22.5	152 29.6	152 31.9	152 35.3	152 35.2	152 33.0	152 37.6	152 38.0	152 39.6	152 40.6	152 44.9	
Latitude Start	58 5.1	58 9.2	58 6.2	57 56.6	57 56.9	58 1.9	58 2.0	58 7.7	58 8.1	57 58.6	57 58.4	57 58.8	57 58.0	57 55.5	57 51.6	
Heading, Degrees	340	134	225	270	55	0	40	180	0	0	34	272	182	182	30	
Average Depth (m)	187	185	172	196	126	196	196	115	91	168	135	132	117	95	59	
Distance Fished (km)	1.9	1.9	1.9	1.9	1.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.5	1.9	1.7	
Bottom Temperature	5.7	5.7	5.7	5.7	6.3	5.6	5.6	4.3	4.4	5.7	6	5.9	6.2	7.1	7.2	
-----kilograms/kilometer-----																
Pollock	0	52.1	28.2	0	23.5	0	35.8	26.6	5.5	25.5	17.6	95.7	380.9	45.8	0	
Pacific Cod	12.6	13.2	43	20.5	38.9	15.8	27.8	6.4	35	14	29.6	17.5	9.9	1.1	4.4	
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rougheye Rockfish	0.5	0.8	1.5	2.8	0.5	0	0	0.5	0	0	0	2.1	0	0	0	
Thornyhead Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sablefish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sculpins	0	0.8	0	1.8	27.5	0	0	2.1	0	6.4	0	0	20.3	0	0	
Other Roundfish	3.5	15.6	2.9	0	8.2	0	1.4	0	0.4	0	3.8	0	8	1.5	1.2	
TOTAL ROUNDFISH	16.7	82.5	75.7	25.1	98.6	15.8	65	35.6	41	45.8	51	115.3	419.1	48.4	5.6	
47	Arrowtooth Flndr	88.7	96.1	217.7	74.7	66.2	108.5	105.2	10.6	22.1	102.9	51.8	389	152.4	93.1	40.2
	Flathead Sole	35.5	38.4	69.1	98	46.9	152.2	97.4	75.4	92.5	171.1	193.6	149.8	243.8	184.7	160.8
	Rock Sole	0	0	6.3	0	0	0	7.2	0	0	0	0	0	20.3	0	33.1
	Rex Sole	0	8.8	14.6	0	0	0	0	0	0	0	0	0	0	0	0
	Dover Sole	0	26.4	15.7	0	0	0	0	0	0	0	0	0	0	0	0
	Pac Halibut	23.8	9.8	35.4	6.4	0.7	0	8.7	17.2	5.4	32.5	19.5	80.7	21.4	48.8	39.3
	Starry Flndr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Yellowfin Sole	0	0	0	0	0	0	0	0	0	0	0	0	0	0	118.2
	Other Flatfish	0	0	0	0	0	0	0	0	0	0	0	0	0	34.3	0
TOTAL FLATFISH	147.9	179.5	358.7	179.1	113.9	260.6	218.6	103.2	120	306.4	285	598.5	437.9	360.9	391.6	
Skates	45.7	39.4	13.2	6.9	9.7	0	7.2	0	7.5	9.1	21.3	4	8.5	11.5	36.9	
Spliny Dogfish	0	0	0	0	0	1.9	0	0	0	0	0	0	0	0	0	
Other Elasmobrnh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tanner Crab	124.9	5.8	6	15	1.5	19	22.2	47.6	44.5	35	0.6	13.7	9.5	0.5	0.1	
Red King Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dungeness Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1	
Shrimp	1.1	0.8	5.8	1.2	2	0.8	2.5	2.3	1.3	1.3	3.1	2.1	2.6	1.5	0	
Scallop	0	0	0	0	0	0	0	0	0.2	0	0	0	0	0	1.5	
Other Inverts	25.7	3.2	38.9	6.5	2	14.3	0.4	0	6.4	3.7	30.1	4.2	17.8	14.4	257.7	
TOTAL INVERTS	151.8	9.8	50.7	22.6	5.5	34.1	25.1	49.8	52.4	40	33.7	20	29.8	16.4	259.4	
Other	3.5	8	0	0.6	0.2	0.8	2.2	2.5	3.8	0.9	1	35.6	27.9	174.2	116.6	
TOTAL CATCH(kg/km)	365.6	319.2	498.3	234.3	227.9	313.2	318.1	191.1	224.7	402.3	372	774.5	923.3	611.4	810	

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Appendix B. (Page 3 of 25)

Haul	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	
Location	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	N.E.KOD	
Month/Day/Year	6/22/96	6/23/96	6/23/96	6/23/96	6/23/96	6/23/96	6/23/96	6/24/96	6/24/96	6/24/96	6/27/96	6/27/96	6/27/96	6/27/96	6/27/96	
Station	KZD	KZA	KZB	369X	395	CHG	CHL	CHK	CHE	CHE	420	421	444	443	442	
Longitude Start	152 47.6	152 53.0	152 52.0	152 3.4	151 56.0	152 12.1	152 14.6	152 18.3	152 27.2	152 27.8	151 48.3	151 41.7	151 37.4	151 43.2	151 53.1	
Latitude Start	57 52.8	57 46.3	57 48.7	57 44.8	57 41.0	57 41.9	57 43.9	57 42.9	57 40.5	57 40.4	57 37.0	57 34.7	57 30.9	57 31.5	57 30.4	
Heading, Degrees	35	10	17	180	338	90	58	303	44	30	145	140	317	275	230	
Average Depth (m)	93	42	55	110	117	110	183	146	18	11	126	121	166	144	93	
Distance Fished (km)	1.3	1.9	1.1	1.9	1.9	1.9	1.9	1.9	1.5	1.3	1.9	1.9	1.9	1.9	1.9	
Bottom Temperature	7.1	6	6	6.4	6.7	6.5	6.8	6.5	7.7	8	6	6	5.8	6	6.5	
-----kilograms/kilometer-----																
Pollock	98	10.6	27.4	1229.5	71.4	32.5	0	0	0	0	169.5	0	398.7	328.5	0	
Pacific Cod	0.2	0.5	55	30.7	35.5	58.3	10.2	43	28.8	0.4	8.3	7.9	129.2	30.5	46.4	
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0.3	0	0	
Rougheye Rockfish	0	0	0	0	0	0.4	1.3	0.8	0	0	0	0	0	0	0	
Thornyhead Rockf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sablefish	0	0	0	0	0	0	0	0	1.8	0	0	0	0	0	0	
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Salmon	0	0	0	0	0	2.4	0	0	0	0	0	0	0	0	0	
Sculpins	0	1.4	52.4	0	119.7	62.4	0	107.7	155.2	45.7	15.1	0	12.6	0	0	
Other Roundfish	0	0	2.5	0	5	0	15.2	3.3	4.6	5.7	3	0.9	6.3	1.1	0.9	
TOTAL ROUND FISH	98.3	12.5	137.3	1260.2	234.1	153.6	26.7	156.7	188.6	51.8	196	8.8	547.1	360	47.4	
64	Arrowtooth Flndr	178.7	0	99.8	1159.2	56.5	46.1	279.6	121.2	18.3	0	127.2	161.4	52.5	538.1	217.8
	Flathead Sole	101.8	33.5	301.8	158.1	49.8	54.2	89	161.6	0	0	48.4	27.6	84	150.3	3.6
	Rock Sole	0	0	0	0	93	0	0	0	1159.8	776.5	0	0	0	0	64.3
	Rex Sole	0	0	2.5	0	6.6	5.4	0	0	0	0	21.2	49.8	16.8	0	0
	Dover Sole	0	0	0	0	0	0	0	0	0	0	10.6	18.5	0	45.4	0
	Pac Halibut	21	3.6	0	23.5	40.2	25.9	105.5	58	3.2	0.5	5.8	14.6	11.1	4.3	5.4
	Starry Flndr	0	12.7	124.7	0	0	0	0	0	0	0	0	0	0	0	0
	Yellowfin Sole	32.2	26.8	134.7	0	0	0	0	0	18.3	11.4	0	0	0	0	0
	Other Flatfish	0	0	0	0	53.2	5.4	0	0	0	17.1	16.6	33.2	0	17.5	24.9
	TOTAL FLATFISH	333.8	76.7	663.6	1340.8	299.4	137	474.1	340.8	1199.6	805.5	229.9	305.1	164.4	755.6	316

Skates	34.6	0	0	17.8	6.2	1.9	9.2	20.4	5.9	33.3	26.3	8.6	72.5	7.7	51.3	
Spiny Dogfish	0	0	0	0	0	0	0	1.4	0	0	0	3.8	0	0	0	
Other Elasmobrnh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tanner Crab	50.1	5.8	16.6	1.1	0	0.8	12	185	1.4	0.4	0.1	0	0.1	0.4	0.3	
Red King Crab	0	0	4.5	0	0	0	0	2.5	0	0	0	0	0	0	0	
Dungeness Crab	1.5	0	1	0	0	0	0	0	8	2.5	0	0	0	0	0	
Shrimp	0	0	0	0	0	0	4.6	1.3	0	0	0	0	0	0	0	
Scallop	0	0	0	0.1	0	0.2	0	0	0	0	0.1	1.2	0.2	1.5	0.9	
Other Inverts	3.7	2.9	5	316.1	44.9	211.8	249.1	1.3	66.2	278.4	49.9	7.4	6.3	10.5	0	
TOTAL INVERTS	55.3	8.6	27.2	317.3	44.9	212.8	265.7	190.2	75.6	281.2	50.1	8.6	6.6	12.4	1.1	
Other	2.5	4.2	12.5	8.8	0.8	0	7.3	0	9.1	11.4	3	0	0	3.5	2.7	
TOTAL CATCH(kg/km)	524.5	102.1	840.6	2944.9	585.3	505.3	783	709.5	1478.9	1183.3	505.3	334.8	790.6	1139.3	418.5	

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Appendix B. (Page 4 of 25)

Haul	45	47	48	49	50	51	52	53	54	55	56	57	58	59	60
Location	E.KOD														
Month/Day/Year	6/28/96	6/28/96	6/28/96	6/28/96	6/28/96	6/28/96	6/28/96	6/28/96	6/28/96	6/28/96	6/28/96	6/28/96	6/29/96	6/29/96	6/29/96
Station	UGF	UGG	UGJ	486B	511B	535B	535D	535A	535C	560	561	589	621	656	696
Longitude Start	152 34.1	152 30.1	152 27.4	152 25.4	152 24.8	152 24.7	152 24.4	152 27.7	152 28.1	152 30.5	152 26.5	152 26.7	152 27.1	152 25.3	152 25.7
Latitude Start	57 24.4	57 23.0	57 22.4	57 19.6	57 13.5	57 9.6	57 8.8	57 10.5	57 8.8	57 4.3	57 4.4	56 59.6	56 54.7	56 51.2	56 46.2
Heading, Degrees	180	87	188	182	180	355	180	163	180	194	209	195	198	187	195
Average Depth (m)	84	68	71	73	79	128	141	139	146	139	146	137	183	165	177
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Bottom Temperature	6.7	7	7	7.2	6.4	6.3	6.5	5.7	5.7	5.3	5.4	5.4	5.7	5.7	5.8
-----kilograms/kilometer-----															
Pollock	62.5	100.8	2.2	0	2.5	0	0	2167.3	55.1	20	109.8	0	3640.9	0	0
Pacific Cod	2.4	13.7	26.1	53	11.3	38.2	65.2	30.7	33.4	18.2	3	4.5	40	13.7	0
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1
Rougheye Rockfish	0	0	0	0	0	0	0	0	0	1.3	0	0	0	0.2	27.1
Thornyhead Rock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.5
Other Rockfish	0	0	0	0	0	12.1	4.8	0	0	2.8	0	0	0	0	1
Sablefish	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	2.4
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	0	0	0	0	0	0	0	0	0	0	0	0.8	0	0	0
Other Roundfish	6.4	12	0	3.5	0.2	0	0	0	0	0	40.6	0	4.5	2.5	0
TOTAL ROUNDFISH	71.3	126.5	28.2	56.5	14	50.3	70	2198.1	89	42.3	153.4	5.2	3685.5	16.4	33

Arrowtooth Flounder	4.8	28.8	83.4	34.8	0.5	483.7	883.7	450.8	469.4	180.8	943.5	481.2	1198.3	776.5	174.7
Flathead Sole	213	76.8	59.9	12.1	0	129.2	130.9	182.2	12.4	88.2	48.1	16.5	13	30.2	21.7
Rock Sole	12.8	0	128.3	216.3	27.1	0	0	0	0	0	0	0	0	0	0
Rex Sole	0	0	2.2	0	0	98.7	85.1	86.3	7.1	0	0	15	0	0	0
Dover Sole	0	0	15	0	0	14.1	55.6	0	1.8	27.3	0	0	0	0	0
Pac Halibut	37.1	29.6	28	12.4	17.1	4	2.5	10.6	16.6	11.2	13.9	16.5	11.3	24.2	21.8
Starry Flounder	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yellowfin Sole	100.9	115.2	0	0	0	32.9	0	0	0	0	0	0	0	0	0
Other Flatfish	24	36	59.8	79.6	4.4	0	0	0	0	0	0	0	0	0	0
TOTAL FLATFISH	392.7	286.4	376.5	355	49	762.6	1157.9	729.9	507.3	305.6	1005.5	529.3	1220.6	830.9	218.2

Skates	105.2	39.7	30.5	15.1	11.3	7.3	9.4	14.8	0	0	4.5	1.5	2.3	1.9	13.3
Splny Dogfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Elasmobr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	0.6	0.1	0	0.1	0	0.4	0.4	0.3	0.6	0.2	2.2	1.7	0.3	0.2	35.9
Red King Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dungeness Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shrimp	2.4	0	0	0	0	0	1.6	0	0.9	0	0	0	0	0	3.6
Scallop	1.2	3.1	0.6	0	2.2	0.3	0.2	1.9	0.3	0.1	0	9.3	0	0	0
Other Inverts	35.2	532.6	265.1	250.9	11.7	25.8	78.6	0	0.9	16.3	99.5	3	0	3.2	5.8
TOTAL INVERTS	39.5	535.8	265.8	250.9	13.8	26.5	80.8	2.2	2.6	16.6	101.7	14	0.3	3.4	45.2
Other	6.4	33.7	2.2	3.5	0.5	0	0	0	58.7	1	0	0.8	0	0	0.7
TOTAL CATCH(kg/km)	615.1	1022.1	703.1	680.9	88.7	846.7	1318	2944.9	657.7	365.6	1265.1	650.8	4908.7	852.6	310.4

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Appendix B. (Page 5 of 25)

Haul	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	
Location	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	
Month/Day/Year	6/29/96	6/29/96	6/29/96	6/30/96	6/30/96	6/30/96	6/30/96	6/30/96	6/30/96	6/30/96	7/1/96	7/1/96	7/1/96	7/1/96	7/1/96	
Station	695	655	620	559	588	587	619	654	618A	586	585X	533A	533B	534D	534B	
Longitude Start	152 33.2	152 33.6	152 34.6	152 45.0	152 36.6	152 42.8	152 45.8	152 43.4	152 51.1	152 55.6	153 1.3	152 45.5	152 43.8	152 30.5	152 32.7	
Latitude Start	56 45.3	56 50.5	56 53.7	57 5.7	56 60.0	56 58.8	56 54.8	56 51.4	56 55.6	56 58.9	56 57.0	57 8.9	57 9.3	57 8.5	57 11.1	
Heading, Degrees	27	0	0	158	185	74	89	303	17	30	80	186	31	0	7	
Average Depth (m)	146	148	155	152	155	146	132	99	123	128	135	141	137	121	102	
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.3	1.9	1.9	1.1	1.9	1.7	1.7	1.9	
Bottom Temperature	5.4	5.5	5.5	5.4	5.5	5.5	5.4	5.5	5.6	5.5	5.7	5.5	5.5	6	5.7	
-----kilograms/kilometer-----																
Pollock	0	0	0	57.9	0	0	7.8	0	0	265.9	29.7	147	632.1	0	851.6	
Pacific Cod	0	0	0	13.5	0	0.5	0.5	25.8	1.3	10.3	15.5	24.9	25.1	18.8	23.6	
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rougheye Rockfish	1.5	2.5	20.9	1.5	11.9	1.4	0	0	0	1.2	0	0	0	0	0	
Thornyhead Rockf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Rockfish	0	0	0.1	0	0.4	0	0	0	0	0	0	0	0	0	0	
Sablefish	0	0	0	4.8	10	30.2	0	0	1.2	0.5	0	0.8	1.1	0.8	0	
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sculpins	0	0	0.8	2.7	0	0	0	0	0	0	0	0	0	0	0	
Other Roundfish	0	0	0.8	4.4	5.7	7	0	0	0.9	3	6.3	20	6.1	0	0	
TOTAL ROUNDFISH	1.5	2.5	22.5	84.8	28	39.2	8.3	25.8	3.4	280.8	51.5	192.7	664.4	19.6	875.2	
L	Arrowtooth Flndr	292	107.5	129.7	461.6	248.1	317.7	128.5	362.2	68.4	56.6	53.3	436.1	930.8	334.1	281.9
	Flathead Sole	9.2	39	46	59.7	57.8	83.8	23.3	12.9	61.3	10.4	91.7	79.8	19.9	41.1	97.3
	Rock Sole	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Rex Sole	4.6	0	0	0	0	0	2.2	33.8	72.7	0	14.8	0	0	27.4	
	Dover Sole	27.7	0	7.4	0	14.5	0	0	16.1	54.3	25.4	34.9	69.8	0	26	
	Pac Halibut	0	6.8	10.7	45.7	0	45.4	14.7	14.6	5	2.8	0	2.7	3.2	7.1	
	Starry Flndr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Yellowfin Sole	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Other Flatfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL FLATFISH	333.5	153.3	193.8	567	320.4	446.8	168.7	439.6	261.8	95.2	194.7	588.3	953.9	435.6	385.7	
Skates	19.8	4.4	40	48.7	32	31.9	20.6	0	1.1	9	21.5	9	26.8	3.8	10.2	
Spliny Doglsh	0	0	0	0	0	0	0	0	0	0	0	0	0	2.1	0	
Other Elasmobrh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tanner Crab	23.9	20.8	17.1	2.2	12.1	6.9	0.8	2.5	2.6	1.7	1.4	0.9	0.1	0.4	0	
Red King Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dungeness Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Shrimp	1.4	1.6	1.5	0.9	1.1	2.8	0	0	0	0	0.4	1.2	0	0.7	0	
Scallop	0	0.3	0.2	0.4	0	0	3.1	34.9	1.5	0	0	0.6	0	0.1	1.5	
Other Inverts	2.8	2.2	11.1	1.8	39	16.2	18.8	57.9	22.8	41.2	1.7	2.5	214	71.2	6.1	
TOTAL INVERTS	28	24.8	29.9	5.3	52.2	25.9	22.7	95.3	26.9	42.9	3.6	5.2	214.1	72.3	7.6	
Other	0	0.3	0	3.6	0.5	0	0.5	0	0	11.6	19.3	0	0	0	1	
TOTAL CATCH(kg/km)	382.8	185.3	286.2	709.5	433.1	543.7	220.9	560.8	293.2	439.5	290.6	795.3	1859.3	533.4	1279.7	

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Haul	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90		
Location	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD		
Month/Day/Year	7/1/96	7/1/96	7/1/96	7/1/96	7/2/96	7/2/96	7/2/96	7/2/96	7/2/96	7/2/96	7/2/96	7/2/96	7/2/96	7/2/96	7/2/96		
Station	510C	511A	510B	486A	UGM	UGAC	UGAB	UGAA	UGB	UGC	UGD	UGE	UGI	KLD	KLL		
Longitude Start	152 33.5	152 28.1	152 31.7	152 29.5	152 32.1	152 59.6	152 53.6	152 51.3	152 45.4	152 42.8	152 36.8	152 37.0	152 32.7	152 44.8	152 46.2		
Latitude Start	57 12.1	57 12.7	57 16.1	57 17.5	57 19.0	57 27.5	57 28.5	57 29.8	57 28.3	57 27.9	57 25.9	57 25.2	57 22.0	57 16.8	57 12.5		
Heading, Degrees	21	343	327	20	0	55	90	127	180	123	292	121	167	200	300		
Average Depth (m)	93	101	102	99	101	37	68	77	90	91	99	99	95	27	132		
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.7	0.9	1.9	1.9	1.9	1.9	1.9	1.9	1.3	1.9		
Bottom Temperature	6.9	7.1	7.1	7.2	6.7	5.2	4.8	4.4	6.9	6.8	6.6	6.7	6.8	8.2	6.3		
-----kilograms/kilometer-----																	
Pollock	0	0	0	50	28.5	20.2	20.3	4.2	130.5	193.2	34.2	43.4	16.3	0	20.7		
Pacific Cod	24	22.7	26.5	27	8	0	0	13	21.7	14.4	10	2.2	3.8	0	6.3		
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Rougheye Rockfish	0	0	0	0	0	0	0	0	0	0	0.5	0.5	0	0	0		
Thornyhead Rockf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Other Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sablefish	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	0.5		
Herring	0	0	0	0	0	0.7	0	0	0	0	0	0	0	0	0		
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Sculpins	0	0	15.7	8.6	0	0.8	46.9	8.5	0	0	59.7	0	0	0	0		
Other Roundfish	0	3.1	2.2	6	0	0	0	7.4	0	0	1.1	2.2	2.5	0	23.8		
TOTAL ROUNDFISH	24	25.8	44.8	91.7	36.4	21.6	67.2	33	152.2	207.6	105.5	48.2	22.6	0	51.3		
L2	Arrowtooth Flndr	593.4	763.6	174.3	129.4	235	0	1.5	63.5	3.6	92.5	66.3	228.5	181.2	0	164.8	
	Flathead Sole	103	12.5	41.4	45.7	44.5	18.6	22.7	100.5	268.1	576.8	134.8	120	61.6	0	17.3	
	Rock Sole	0	0	0	0	0	24	0	0	0	0	0	0	0	52.9	0	
	Rex Sole	0	0	0	0	0	0.4	0	0	0	0	0	1.5	0	0	0	
	Dover Sole	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23.1	
	Pac Halibut	0	25.6	16.7	34.8	17.7	4.5	0	0	51.4	4.5	6.4	23.3	63.2	43.3	6	
	Starry Flndr	0	0	0	0	0	15.5	0	0	0	0	0	0	0	0	509.1	0
	Yellowfin Sole	0	0	0	0	0	131.7	160.7	199	137.7	46.3	0	0	0	0	0	
	Other Flatfish	33.6	175.3	0	0	0	0	0	0	540	13.6	5.5	79.5	4.3	0	0	
	TOTAL FLATFISH	730	977	232.4	209.9	297.2	194.6	184.9	363	1000.8	733.7	212.9	452.8	310.3	615.3	211.1	

Skates	12.2	26.3	10.1	37.6	4.6	0	0	0	70.2	88.3	51.3	79.5	144.3	5	2.9		
Spiny Dogfish	0	0	0	0	0	0	0	0	0	0	0.5	0	0	3.5	0		
Other Elasmobr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73.4		
Tanner Crab	0	0	0.4	0.3	90.4	43.2	58	169.8	3.9	4.2	27.1	58.5	11.9	0.3	0		
Red King Crab	0	0	0	0	0	0	14.7	0	0	6.2	0	0	0	0	0		
Dungeness Crab	0	0	0	0	0	0.8	0	0	1.7	0	0.3	0	0	0	0		
Shrimp	0	0	0	0	0	0.4	1.6	1.1	0	2.7	1.6	4.3	1.3	0	2.3		
Scallop	0.1	0.1	0.1	0	0.2	0	0	0	4.7	0	0.3	2.1	0	0	0		
Other Inverts	29.1	1.6	145.2	44	80.4	2.3	1.9	0	7.2	0	40.3	42	41	136.5	206.3		
TOTAL INVERTS	29.2	1.7	145.8	44.3	171	46.7	76.2	170.9	17.5	13.1	69.6	106.9	54.3	136.8	208.6		
Other	0	0	0	0.4	0	7	5.5	0	0	2.7	1.7	0	0	0	0		
TOTAL CATCH(kg/km)	795.4	1030.8	433.1	384	509.2	269.9	333.8	567	1240.8	1045.3	441.6	687.4	531.4	760.6	547.5		

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Appendix B. (Page 7 of 25)

Haul	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	
Location	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	E.KOD	S.E.KOD							
Month/Day/Year	7/3/96	7/3/96	7/3/96	7/3/96	7/3/96	7/3/96	7/3/96	7/3/96	7/4/96	7/4/96	7/4/96	7/4/96	7/4/96	7/4/96	7/4/96	
Station	KLA	KLB	KLC	KLI	KLH	KLG	KLF	KLE	688	726	727	759	760	761	728	
Longitude Start	153 4.7	152 59.0	152 56.1	152 51.0	152 55.1	152 58.9	153 3.8	153 8.3	153 40.3	153 35.3	153 29.2	153 32.3	153 26.9	153 18.5	153 19.4	
Latitude Start	57 18.3	57 18.6	57 17.7	57 14.5	57 13.8	57 12.3	57 12.1	57 10.7	56 43.5	56 41.8	56 40.5	56 33.7	56 34.4	56 36.9	56 38.7	
Heading, Degrees	80	157	160	121	240	245	253	45	90	157	157	0	0	90	14	
Average Depth (m)	91	80	91	124	115	123	123	119	150	154	144	143	133	141	146	
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	
Bottom Temperature	3.7	6.9	6.6	6.6	6.8	5.8	5.8	5.9	5.2	4.9	4.9	5.1	4.9	4.9	4.7	
-----kilograms/kilometer-----																
Pollock	144.1	114.8	41.8	0	50.9	0	24.4	80	0	7.6	8.3	0	0	0	8.2	
Pacific Cod	19.8	45.9	30	17.7	28.7	20.1	57.4	34	24.3	43.1	35.6	14.7	10.1	5.9	1.5	
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rougheye Rockfish	0.5	0	0	0	0	0	0.4	2.7	0	0	2.4	0	1.1	0	14.3	
Thornyhead Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sablefish	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sculpins	45.3	15.3	14.6	0	17	128.7	0	56.4	0	0.3	3.1	0	0	0	0	
Other Roundfish	2.3	0	0	35.3	8.6	15.3	3.1	7.8	9.3	4.2	4.8	3.3	2.5	0	1.4	
TOTAL ROUNDFISH	213.1	176.1	86.4	52.9	105.2	164.1	85.3	180.9	33.6	55.2	54.2	18	13.7	5.9	25.4	
TOTAL	Arrowtooth Flounder	49.9	65.6	98.4	247.1	263.9	135.2	274.6	235.2	911.1	29.8	83	34.8	66.3	54.1	70.5
	Flathead Sole	148.7	124.7	188.4	109.6	284.6	171.9	94	362.1	39.1	135.9	33.2	7.4	72.5	48.8	81.3
	Rock Sole	0	0	0	18	0	0	0	0	0	0	3.4	0	0	0	0
	Rex Sole	0	0	0	16.4	0	0	0	0	0	9	3.1	3.1	0	1.9	0
	Dover Sole	0	0	0	0	0	17.3	0	0	0	0	0	0	0	11.1	0
	Pac Halibut	2.9	29.9	0.1	0	25.5	3.5	24.8	24.6	36.9	8.7	0	30.9	34.3	0	40.3
	Starry Flounder	0	0	0	0	0	0	0	89.4	0	0	0	0	0	0	0
	Yellowfin Sole	8.2	0	10.5	0	0	0	0	0	0	0	0	0	0	0	0
	Other Flatfish	0	15.3	0	0	0	0	0	0	58.7	0	0	0	0	0	0
	TOTAL FLATFISH	209.7	235.5	297.3	391	574	327.8	393.4	711.2	1045.8	183.4	119.4	79.6	173.1	116	192.1

Skates	6.4	52.6	45	17.2	25.3	15.2	4.5	1.7	18.7	20.7	18.4	3.6	15.7	3.2	12.8	
Spiny Dogfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Elasmobranchs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	

Tanner Crab	7.5	4	5.8	4.3	0.6	20.4	5.4	1.2	0.1	3.1	5.7	7.4	1.8	0.6	1.5	
Red King Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dungeness Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Shrimp	0	5.5	1.1	0.3	2.8	1.1	4.9	3.6	0	0.3	1.1	0.5	0.1	0.5	0.4	
Scallop	0	2.5	5.6	0	0.8	0	0	0	0	0.7	0.4	0	0	1.2	0.5	
Other Inverts	16.3	8.7	56.5	116.1	43.4	3.2	28.1	9.4	2.8	17.3	37.9	8.4	8.6	4.2	28.1	
TOTAL INVERTS	23.8	20.7	69.1	120.7	47.6	24.7	38.3	14.1	2.9	21.5	45.1	16.4	10.5	6.4	30.5	
Other	2.3	1.1	0.5	13.1	0	0.5	0	2.4	0	0	0	0.3	0.3	1.9	0.7	
TOTAL CATCH(kg/km)	455.2	486	498.4	595	752.1	532.4	521.5	910.4	1101	280.8	237	117.9	213.2	133.4	261.4	

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Appendix B. (Page 8 of 25)

Haul	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120
Location	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD
Month/Day/Year	7/4/96	7/5/96	7/5/96	7/5/96	7/5/96	7/5/96	7/6/96	7/6/96	7/6/96	7/6/96	7/6/96	7/6/96	7/6/96	7/6/96	7/7/96
Stallon	729	THJ	THH	THK	THL	THM	THN	THI	THF	THG	THD	THC	614	THA	615
Longitude Start	153 11.2	153 27.5	153 24.5	153 29.7	153 23.7	153 21.1	153 20.1	153 35.1	153 35.0	153 27.1	153 28.9	153 30.1	153 27.9	153 42.4	153 24.3
Latitude Start	56 40.0	57 3.7	57 2.5	57 8.7	57 7.3	57 9.0	57 9.9	57 4.0	57 1.3	57 1.0	56 58.3	56 57.2	56 54.5	56 53.5	56 55.0
Heading, Degrees	7	353	195	192	37	218	177	122	65	40	0	180	1	66	180
Average Depth (m)	150	113	108	101	121	121	110	90	75	121	128	132	139	55	143
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.9	1.3	1.9	1.7	1.9	1.9	1.9	1.9	1.9	1.9
Bottom Temperature	4.7	5.4	6.5	5.2	5.3	5.3	6.3	6	5.7	6.1	6	6.4	7	5.2	
-----kilograms/kilometer-----															
Pollock	0	61.2	323.5	195.6	0	106.7	1322.8	69.1	18.2	0	0	104	59.2	57.5	0
Pacific Cod	4.3	22.4	9.7	42.5	48.8	111.2	27.2	42.7	13.3	78.5	37.8	41.4	23	115.4	17
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rougheye Rkfish	0	0.4	0	0	1.9	1	4.6	0	1.1	0	4	3.5	0.4	0	0
Thomyhead Rkfh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0.9	0	0	0	0	0	0.5	0	0
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	0	1.8	0	91.4	0	77.9	49.4	49.1	22.7	69.1	33.6	0.9	45.1	35.3	15.1
Other Roundfish	0.7	1.3	33.4	4.1	10.7	12.9	6.3	0	4.1	29.2	8.6	5	11.6	2.2	8.2
TOTAL ROUNDFISH	5	87.1	366.6	333.6	61.4	309.6	1411.3	160.9	59.5	176.7	84	154.9	139.7	210.4	40.2
-----kilograms/kilometer-----															
Arrowtooth Flndr	75.9	362	267.9	106.3	364.8	533.4	296.5	128.9	109.1	235.5	116.1	127.5	149.4	97.2	249.4
Flathead Sole	64.7	155.9	245.2	252.9	640.9	227.8	243.3	244	130.7	141.3	246.2	248.4	128.2	88.3	76.7
Rock Sole	0	0	0	14.9	0	0	0	0	0	0	39.1	23.5	0	13.2	4.1
Rex Sole	1.9	0	0	0	3.3	0	0	0	0	0	0	0	0	0	4.1
Dover Sole	1.9	0	30.3	0	0	0	0	0	0	0	0	33.6	73.3	0	56.2
Pac Halibut	19.6	8.7	13.4	13.9	13.3	23.2	18	41	1.4	14.3	5.8	3.6	14.6	8.9	41.3
Starry Flndr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Yellowfin Sole	0	0	0	0	39.4	0	0	0	102.8	0	0	0	0	344.5	0
Other Flatfish	0	20.4	0	0	0	46.1	102.7	0	3.4	47.1	0	8.4	15.5	269.5	0
TOTAL FLATFISH	164	547	556.9	388	1061.7	830.5	660.4	413.9	347.4	438.1	407.2	445	381	821.7	431.7
Skates	3.2	0	56	0	0	15.2	1.1	14.8	33.4	10.6	3.2	0.1	35.2	63.9	3.8
Spliny Dogfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Elasmobrh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	1.6	9.5	0.6	54.1	15	20.8	31.7	10.2	16.3	7	14.2	24.8	1	71.5	4.4
Red King Crab	0	0	0	0	0	0	0	1.8	0	0	0	0	0	1.8	0
Dungeness Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shrimp	1	2	0	1.1	1.6	0.3	0	1.5	0.7	1	0.9	1.8	0.9	1.1	0.2
Scallop	0.5	0	0	0	0	0	0	0	1.2	0	0	0	0.2	10.3	0
Other Inverts	3.1	13	7.6	6.4	0	0	3.8	15.3	13.1	92.6	43.4	6.7	28.2	260.7	52
TOTAL INVERTS	6.2	24.5	8.2	61.6	16.6	21.1	35.5	28.8	31.2	100.6	58.4	33.4	30.3	345.4	56.5
Other	0.9	0	2.5	10.6	0	0.3	3.8	4.6	0	0.2	0.7	0	0.7	49.5	0
TOTAL CATCH(kg/km)	179.3	658.6	990.3	793.7	1139.8	1176.6	2112.1	623.1	471.5	726.2	553.5	633.3	586.9	1490.8	532.3

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Appendix B. (Page 9 of 25)

Haul	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	
Location	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.E.KOD	S.W.KOD									
Month/Day/Year	7/7/96	7/7/96	7/8/96	7/8/96	7/8/96	7/8/96	7/9/96	7/9/96	7/9/96	7/9/96	7/9/96	7/9/96	7/9/96	7/10/96	7/10/96	
Station	651	725	892	891	920	858	846D	846B	646A	645B	646C	682B	683A	684A	683B	
Longitude Start	153 14.6	153 48.6	154 7.1	154 11.3	154 24.4	154 16.2	154 20.1	154 22.3	154 25.8	154 29.0	154 26.0	154 29.0	154 25.4	154 15.8	154 20.8	
Latitude Start	56 50.3	56 40.5	56 15.2	56 14.6	56 8.2	56 20.0	56 48.9	56 50.4	56 50.8	56 49.5	56 49.1	56 45.7	56 45.7	56 46.2	56 45.3	
Heading, Degrees	343	234	258	292	20	282	260	0	275	0	277	10	277	324	306	
Average Depth (m)	174	95	135	126	139	90	55	59	66	66	66	60	44	60		
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	
Bottom Temperature	4.7	6.5	4.7	5.7	5.7	5.9	8.8	8.8	8.7	8.8	8.7	8.9	8.8	8.8	8.6	
-----kilograms/kilometer-----																
Pollock	0	0	0	0	0	0	53.5	9.4	1210.3	140.9	245.6	167.3	155.8	14.5	23.9	
Pacific Cod	47.2	172.7	28.8	72.2	0	32.8	12.9	1.3	1.2	1.7	10.5	4.8	0.8	0	0	
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rougheye Rockfish	5.1	0	0	0	0	0	0	0	0	0	0.1	0	0	0	0	
Thornyhead Rockf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sablefish	0	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sculpins	0	34.4	0	0	0	0	0	1	0	0	0	13.3	0	0	0	
Other Roundfish	0	5	0	4	0	0	8.6	3.2	0	1.6	6.2	0.6	0	1.1	2.9	
TOTAL ROUNDFISH	52.3	212.2	28.8	76.2	0	32.8	74.9	14.9	1211.4	144.3	262.3	186	156.6	15.8	26.8	
G1	Arrowtooth Flndr	555.6	39.5	567.9	1052.1	436.4	121.7	20.9	18.9	28	41.7	26.6	132.8	102.2	10.2	35.5
	Flathead Sole	78.5	31.5	19.1	9.2	0	46.5	67.7	88.2	116.8	164.2	290.6	63.7	75.9	44.8	55.7
	Rock Sole	0	79.6	0	0	0	68.7	0	0	0	0	0	0	0	2.9	0
	Rex Sole	0	0	10.6	52.3	90.9	8.9	0	0	0	0	0	1.3	0	0	0
	Dover Sole	45.7	0	25.4	0	83.6	81.9	0	0	0	0	0	0	0	0	0
	Pac Halibut	49.6	38.3	35.7	33	2.9	11.8	13.5	26.8	46.5	42.9	16.3	46.4	143.2	24.6	57
	Starry Flndr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Yellowfin Sole	0	0	0	0	0	40.9	35.3	30.4	0	0	15.9	0	42	3.7	
	Other Flatfish	0	14.4	0	0	0	42.1	4.2	14.5	0	41.7	36.8	4	0	31.8	6.4
TOTAL FLATFISH	729.4	203.3	658.6	1146.7	613.9	382.5	147.1	183.6	221.8	290.4	370.4	264.2	321.3	156.2	158.3	

Skates	25.6	8	0	42.2	3.3	78.2	47	83.3	46.9	146	108.9	63.4	69.1	58.7	5.8	
Splny Dogfish	0	0	0	0	0	0	0	0	0	0	0	0	2.1	0	0	
Other Elasmobrh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tanner Crab	3.1	0	0.1	0.1	0.1	0	0.1	0.2	0.8	0.1	0.8	1.2	0.1	0.4	0.6	
Red King Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dungeness Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Shrimp	0.2	0	0	0	0	0	0	0	0	0	0.6	0	0	0	0.5	
Scallop	0	0.4	0	0	0	0	3.6	25.8	9	3.7	6.9	5.6	15.1	2.5	9.4	
Other Inverts	9.8	11.5	6.3	12.3	0	0	0.8	43.5	4.6	42.3	14.4	41.1	14.1	13.2	39.2	
TOTAL INVERTS	13.1	11.9	6.4	12.4	0.1	0	4.6	69.4	14.4	46.7	22	47.9	29.3	16.1	49.8	
Other	0.2	1.5	2.1	0	3.6	0	36.7	5.7	1.2	1.2	0	2.6	1	72.2	10.1	
TOTAL CATCH(kg/km)	820.7	436.9	696	1277.6	620.9	493.5	310.5	356.9	1495.7	628.6	763.6	564.2	579.4	319.1	250.6	

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Appendix B. (Page 10 of 25)

Haul	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	
Location	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	
Month/Day/Year	7/10/96	7/10/96	7/10/96	7/10/96	7/10/96	7/11/96	7/11/96	7/11/96	7/11/96	7/11/96	7/11/96	7/11/96	7/11/96	7/12/96	7/12/96	
Stallon	683D	ALC	ALD	ALF	ALI	ALR	ALQ	ALP	ALO	ALL	ALH	ALB	ALA	608X	678X	
Longitude Start	154 22.7	154 7.8	154 11.3	154 9.7	154 6.2	153 48.7	153 54.2	153 57.4	153 59.5	154 5.2	154 6.4	154 11.5	154 8.9	155 7.1	155 9.9	
Latitude Start	56 44.0	56 49.4	56 52.8	56 51.8	56 53.6	57 7.5	57 5.1	57 2.6	56 59.3	56 55.4	56 54.1	56 49.9	56 46.8	56 50.5	56 44.8	
Heading, Degrees	95	38	185	0	33	215	225	215	228	40	199	300	17	194	195	
Average Depth (m)	73	73	57	55	73	113	174	155	133	88	68	40	64	101	80	
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.3	1.9	1.9	1.9	1.9	1.5	1.5	
Bottom Temperature	8.8	6.3	6.6	6.6	3.1	2.9	2.8	2.8	2.8	3.3	4.4	8.7	6.8	5.3	6.4	
-----kilograms/kilometer-----																
Pollock	3.3	4.7	117	6.6	241.3	162.9	46.8	88.3	79.5	105.4	80.9	38.9	0	0	1558.2	
Pacific Cod	30.2	18.5	14.7	5	4.6	29.3	6	3	3.9	3.1	0.8	28.6	6.2	40.8	3.4	
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rougheye Rockfish	0	0	0	0	0	0	0	0	0.8	0	0	0	0	0	0	
Thomyhead Rockf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Rockfish	0	0	0	0	0	0	0	0	0	0	0	0.6	0.1	0	65.2	
Sablefish	0	0	0	0	0	0	0	0.6	1.9	0	0	0	0	0	0	
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sculpins	1.6	1.6	0	0	12.4	1.4	0.8	0	0.6	33.4	11.2	0	0	0	18	
Other Roundfish	2.9	14.7	2.1	2.4	5.8	6.9	19	12	2.5	16.7	9.8	2.4	15.7	0	3.6	
TOTAL ROUNDFISH	38	39.4	133.7	14	264.3	200.5	73.2	105.2	87.2	158.6	102.7	70.6	22	40.8	1648.4	
S1	Arrowtooth Flndr	106.9	7.9	60	19.2	82.1	110.4	174.6	211.5	109.3	40.7	8.4	5.2	0	845.1	424.7
	Flathead Sole	123.4	318	62	82.9	28.6	135.3	6.4	20.7	88.2	102.3	142.3	14.7	167	33.8	82.7
	Rock Sole	0	0	1	0	0	0	0	0	0	0	0	2.9	0	0	0
	Rex Sole	8.2	0	0	0	0	0	0	0	0	0	0	1.4	0	50.7	18
	Dover Sole	0	0	0	0	0	0	11.1	7.6	0	0	0	0	0	38	86.4
	Pac Halibut	43	0	71	18	23.2	0	7.7	0	0	32.6	16.8	20	31.2	19.5	16.5
	Starry Flndr	0	0	0	0	0	29	0	0	0	0	0	0	0	0	0
	Yellowfin Sole	0	67.7	104	24.6	16.1	22.1	0	0	0	0	7	25.6	83.5	0	0
	Other Flatfish	0	31.5	17	15	19.9	0	0	0	0	0	15.3	27.5	0	0	0
	TOTAL FLATFISH	281.5	425.1	315	159.8	169.9	296.8	199.8	239.8	197.5	175.5	189.8	97.4	281.7	987.1	628.3

Skates	30.2	32.2	0	0	0	0	0	0	0	0	53.3	12.3	130.3	12.7	12.9	
Spiny Dogfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Elasmobrh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tanner Crab	0.1	73.7	1.6	4.2	91.8	20.5	19	9.9	7	35	37.1	0.1	62.8	0.3	0	
Red King Crab	0	58.7	2.2	12.5	0	2.9	0	0.2	0	0	1.9	0	56.4	0	0	
Dungeness Crab	0	0	0	0	0	0	0	0	0	0	0	0.3	0	0	0	
Shrimp	0	1.6	0	0	0	1.4	2.8	2.7	4.3	1.1	0	0	0	0	0	
Scallop	4.1	3.1	13.5	1.5	0	0	0	0	0	0	0	9.6	0	0.3	9.2	
Other Inverts	13.9	20.4	25	12	0	2.8	13.8	6.6	42.8	10.4	53.1	16.2	712.4	245.1	41.4	
TOTAL INVERTS	18	157.5	42.2	30.1	91.8	27.5	35.5	19.4	54.1	46.5	92.2	26.2	831.5	245.7	50.7	
Other	4.1	11	1	7.2	11.2	2.8	9.5	8.7	1.2	1	0	18.3	175.1	2.1	1.8	
TOTAL CATCH(kg/km)	371.9	665.2	492	211.1	537.2	527.6	318.1	373.2	340.1	381.7	438	224.7	1440.7	1288.4	2342.1	

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Appendix B. (Page 11 of 25)

Haul	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165
Locallon	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	S.W.KOD	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK						
Month/Day/Year	7/12/96	7/12/96	7/12/96	7/12/96	7/13/96	7/13/96	7/13/96	7/13/96	7/14/96	7/14/96	7/14/96	7/31/96	7/31/96	7/31/96	7/31/96
Station	677X	676X	712X	750X	684C	684C	684B	ALJ	ALG	ALK	ALM	4256	4266	4267	4274
Longitude Start	155 19.1	155 29.4	155 37.2	155 30.1	154 19.1	154 19.9	154 13.6	154 1.7	154 5.6	153 56.0	153 58.0	158 19.8	158 12.6	158 9.9	158 7.3
Latitude Start	56 41.8	56 40.1	56 39.0	56 35.0	56 44.1	56 44.1	56 46.0	56 54.0	56 51.7	56 56.1	56 56.4	56 25.3	56 25.2	56 24.1	56 24.3
Heading, Degrees	204	196	17	33	69	69	40	35	37	250	222	90	90	315	90
Average Depth (m)	108	203	232	108	69	69	82	71	57	64	64	93	150	126	185
Distance Fished (km)	1.7	1.7	1.9	1.3	1.5	1.9	0.9	1.9	1.9	1.9	1.9	1.7	1.1	1.9	1.9
Bottom Temperature	5	5.9	5.5	5.1	8.9	8.9	9.5	6.3	4.9	6.5	6.4	6.8	5.3	5.8	5.2
-----kilograms/kilometer-----															
Pollock	0	18.8	89.4	0	0	11.2	34.7	302.9	20.4	143.6	144.9	112.9	86.1	236.6	52.4
Pacific Cod	15	0	8.6	23.9	0	8.6	20.2	10.9	5.1	2.1	6.2	13.3	29.7	9	34.1
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rougheye Rockfish	0	37.6	1	0	0	0	0	0	0	0	0	0	0	0.6	1.9
Thomyhead Rockf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Rockfish	0	0.4	0	0	0	0	0	0	0.1	0	0	0	0	0	0
Sablefish	0	28	13	0	0	0	0	0	0	0	0	0	0	0	0
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	0	0	0	0	0	0	0	0	7.5	32.2	19.6	0	0	0	0
Other Roundfish	0	0	0	0	0	3.9	3	1.8	0	5.9	0	5.2	0	0	0
TOTAL ROUNDFISH	15	84.7	111.9	23.9	0	23.8	57.9	315.6	33.1	183.8	170.6	131.4	115.8	246.3	88.4
5															
Arrowtooth Flndr	836.2	736.7	265.1	479.9	0	216.2	25.6	174.4	27.2	4.4	19.6	65	244.2	343.7	214.9
Flathead Sole	44.8	67	64.7	86.5	0	149.9	72.5	119.3	117.1	184.6	184.1	222.5	290.3	254	53.5
Rock Sole	0	0	0	0	0	0	0.8	0	0	0	0	12	0	0	0
Rex Sole	32.9	29.5	0	63.9	0	0	0	0	0	0	0	0	0	7.5	0
Dover Sole	167.3	0	55.5	45.1	0	0	0	0	0	0	0	0	0	24	0
Pac Halibut	0	0	26.3	78.1	0	234	44.5	30.3	46.9	24	13.8	24.7	50.8	62.7	8.7
Starry Flndr	0	0	0	0	0	52.5	0	0	0	0	0	0	0	0	0
Yellowfin Sole	0	0	0	0	0	0	0	73.4	47.6	143.6	107.2	12	0	0	0
Other Flatfish	0	0	0	0	0	2.5	6.8	0	0	0	47.9	0	0	0	0
TOTAL FLATFISH	1081.2	833.2	411.6	753.6	0	655.1	150.1	397.4	238.8	356.5	324.7	384.1	609.4	667.9	277.1
Skates	15.2	0	19.4	3.5	0	103.2	0	56.5	40.3	21.8	11.5	6	9.4	30.2	24
Splny Dogfish	0	0	0	0	0	4.6	0	0	0	0	0	0	0	0	0
Other Elasmobrh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	0.1	0.1	0.4	0	0	0.6	0.3	3.9	0.5	0.7	0.1	0.2	3.4	3.4	24.1
Red King Crab	0	0	0	0	0	0	0	3.2	24.9	0	0	0	0	0	0
Dungeness Crab	0	0	0	0	0	0	0	0	0	0.4	0	0.4	0	0	0
Shrimp	0	0	6.2	0.2	0	0	0.1	0	0	0	0	1.7	3	2.5	1.6
Scallop	0	0	0	0.1	0	0.4	0	0.3	0.5	0.1	0.2	0	0	0	0
Other Inverts	1.5	2.7	6.2	11.3	0	15	14.4	0	3.5	0.2	22.6	18.8	4	0	2.7
TOTAL INVERTS	1.6	2.8	12.8	11.5	0	16	14.8	7.3	29.4	1.4	22.9	21.1	10.3	5.9	28.4
Other	0	2.7	1.6	1.9	0	1.2	30	1.8	0.7	11	1.5	1.7	0	0	1.1
TOTAL CATCH(kg/km)	1113	923.3	557.3	794.4	0	804	252.8	778.6	342.4	574.5	531.3	544.3	745.1	950.3	419

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Appendix B. (Page 12 of 25)

Haul	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	
Location	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK	CHIGNIK	W.NAGAI	W.NAGAI	W.NAGAI	
Month/Day/Year	7/31/96	7/31/96	7/31/96	7/31/96	8/1/96	8/1/96	8/1/96	8/1/96	8/1/96	8/1/96	8/1/96	8/1/96	8/3/96	8/3/96	8/3/96	
Station	4278	4277	4272	4282	4265	4964	4284	4271	4270	4312	4287	4286	332B	353	354	
Longitude Start	158 2.1	158 3.2	158 5.8	157 59.2	158 18.2	158 20.9	158 18.5	158 13.5	158 11.6	158 9.3	157 55.7	157 54.0	160 22.5	160 17.5	160 19.0	
Latitude Start	56 23.7	56 25.0	56 29.4	56 25.3	56 11.5	56 13.5	56 13.4	56 13.9	56 14.8	56 15.2	56 24.1	56 25.5	55 12.4	55 6.2	55 4.6	
Heading, Degrees	327	330	160	90	32	100	30	45	57	69	77	90	0	200	211	
Average Depth (m)	196	174	101	196	59	68	75	84	95	124	203	168	179	106	102	
Distance Fished (km)	1.9	1.7	1.9	1.9	1.7	1.9	1.9	1.9	1.9	1.7	1.7	1.7	1.9	1.9	1.9	
Bottom Temperature	5.1	5.4	5.9	5.2	8.1	8.1	8	7.5	7.9	7.7			5.5	5.5	5.5	
kilograms/dolometer																
Pollock	0	11.2	28.7	0	699.4	60.1	51.2	88.7	23.5	74.8	48	56.7	375.1	0	0	
Pacific Cod	20.9	3	3.1	45.5	32.9	20.4	2.8	15	13.9	25	20.8	23.9	53.1	64.8	101.4	
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rougheye Rockfish	0.8	3.6	0	0	0	0	0	0	0.6	0	5.9	0.8	0	0	0	
Thomyhead Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Rockfish	0	0	0	0	0	0	0	0	0	0	4.7	0	0	0	0	
Sablefish	0	0.9	0	0	0	0	0	0.8	0	0	0	0	2.6	0	0	
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sculpins	0	36.8	0	0	0	12.4	0	45.9	0	0	0	0	0	0	0	
Other Roundfish	0.9	0	0	0	0	1.6	0	0.8	0	0	0	0	0	0	1.8	
TOTAL ROUNDFISH	22.6	57.5	31.9	45.5	732.3	94.5	54.9	150.4	38.1	99.7	79.3	81.4	430.8	64.8	103.2	
57	Arrowtooth Flounder	230.1	275.6	129.3	219.7	116.6	33.2	90.7	186.6	207.2	323.4	180	245.1	234.4	168.4	93.6
	Flathead Sole	65.2	25.5	481.2	69.5	512.1	132.6	297.6	209.5	216.6	252.3	109.1	138.9	187.6	252.5	377.8
	Rock Sole	0	0	0	0	0	0	0	0	0	0	0	0	36.8	35.3	
	Rex Sole	0	0	0	0	0	4.2	0.2	0	0.8	0	0	0	5.2	0	
	Dover Sole	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Pac Halibut	5	24.7	101	88.1	6.4	7.6	33	104.9	14.9	3.5	26.3	26.5	0	26.1	47.6
	Starry Flounder	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Yellowfin Sole	0	0	0	0	124.9	103.6	147.8	0	25.1	0	0	0	0	0	0
	Other Flatfish	0	0	0	0	25	0	0	0	0	0	0	0	28.9	26.5	
TOTAL FLATFISH	300.3	325.8	711.4	377.3	784.9	281	569.3	501	464.7	579.3	315.3	410.5	422	518	580.7	
Skates	0	6.3	13.1	0	68.6	8.5	18.3	35.7	62	35.9	0	0	1.5	0	6.6	
Splny Dogfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Elasmobr.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tanner Crab	23.4	20.9	1.1	11.5	0.1	1.1	2.2	5.5	1.9	230.8	15.9	7.7	1.3	0.1	0	
Red King Crab	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0	
Dungeness Crab	0	0	0	0	2.1	75.4	2.9	3.7	0	0	0	0	0	0	0	
Shrimp	1.3	1.1	2.9	0.9	0	0.2	1	1.5	1.6	1.9	0.5	2.3	1.2	0	0	
Scallop	0	0	0.1	0	0	0	0.6	0.3	0	0	0	0	0.1	0.2	0.3	
Other Inverts	0	0	5.4	2.8	0	18.1	39.4	0	6.3	7.4	0	12.8	3.7	0	56.5	
TOTAL INVERTS	24.7	22.1	9.4	15.1	2.2	95	46.2	11.1	9.7	240.1	16.4	22.7	6.4	0.3	56.8	
Other	0.1	0.5	0.9	0.4	0	1	1.9	0	0	0	1.1	1.4	0	0	0	
TOTAL CATCH(kg/km)	347.7	412.2	766.7	438.3	1588.1	480.1	690.6	698.2	574.5	955	412.2	518.1	860.7	583.1	747.3	

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Haul	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	
Location	W.NAGAI	W.NAGAI	W.NAGAI	W.NAGAI	W.NAGAI	W.NAGAI	W.NAGAI	W.NAGAI	MORZHOV.	MORZHOV.	MORZHOV.	MORZHOV.	MORZHOV.	SANAK	SANAK	
Month/Day/Year	8/3/96	8/3/96	8/3/96	8/3/96	8/3/96	8/4/96	8/4/96	8/4/96	8/5/96	8/5/96	8/5/96	8/5/96	8/5/96	8/5/96	8/5/96	
Stallion	334	335	301	318	337	373B	393	371	87B	87A	87C	87D	98C	113	125	
Longitude Start	160 23.1	160 27.6	160 43.9	160 34.5	160 29.5	160 3.8	159 58.7	160 9.3	162 57.7	162 59.9	162 58.9	162 56.0	162 53.9	162 40.8	162 31.9	
Latitude Start	55 1.7	54 59.5	54 48.0	54 47.6	54 45.7	55 9.3	55 11.9	55 16.8	54 49.7	54 49.6	54 47.3	54 46.2	54 47.4	54 34.0	54 31.0	
Heading, Degrees	222	239	123	123	27	321	337	330	141	180	180	317	180	180	92	
Average Depth (m)	101	110	110	110	110	75	73	137	84	86	66	91	64	132	148	
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.9	1.3	1.9	1.5	1.9	1.9	1.9	1.7	1.9	1.9	
Bottom Temperature	5.6	5.7	4.9	4.9	4.9	5.6	5.9	5.5	5.9	6.1	5.9	5.8	5.9	5.1	5.1	
kilograms/kilometer-----																
Pollock	0	0	0	0	0	180.2	0	126.3	191.6	88.4	1.4	547.4	0.1	0	0	
Pacific Cod	8.9	39.8	23.9	29	393	7.1	2.4	69.6	39.4	2.2	75.5	14.5	15.7	3	14.3	
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rougheye Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0.6	0.4	
Thornyhead Rock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
Sablefish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sculpins	0	0	0	0	0	0	20.7	0	63.8	0	69	0	8	0	2.4	
Other Roundfish	0	0	0	0	0	1.9	2.9	0	16	27.9	5.5	0	4	1.9	4.4	
TOTAL ROUNDFISH	8.9	39.8	23.9	29	393	189.2	26	196	310.9	118.5	151.3	561.8	27.8	5.6	22.5	
5	Arrowtooth Flndr	50.4	312.1	124.4	184.6	566	111.2	193.5	660.4	115.8	253.5	38.6	200.4	25.7	194.5	44.7
	Flathead Sole	644.9	261.1	40.7	90.3	109.3	159.1	72.4	155	91.8	237.3	0	361.7	90.2	84.5	53.6
	Rock Sole	8.9	3.8	0	9	0	9.6	59.1	25.9	35.9	27.9	160	88	80.5	0	0
	Rex Sole	0	22.7	10	7	0	1.9	0	0	18	0	0	0	1.6	8.9	0
	Dover Sole	0	0	0	0	0	0	0	0	0	0	0	0	0	19.7	0
	Pac Halibut	8.5	14	13.3	24.2	35.4	20.6	0	67.9	9	23.4	29.7	20.7	6.9	14.8	27.8
	Starry Flndr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Yellowfin Sole	0	0	0	0	0	141.8	68	0	71.8	51.2	26.2	36.7	5.6	0	0
	Other Flatfish	7.4	0	0	0	0	32.6	35.5	0	0	0	0	0	0	0	3.2
TOTAL FLATFISH	720	613.6	188.4	315.1	710.7	476.7	428.3	909.2	342.3	593.3	254.5	707.4	210.6	322.3	129.2	

Skates	0	3.1	0	0	0	2.9	0	0	0	0.7	0	9.2	0	0	0	
Spiny Dogfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Elasmobr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Tanner Crab	0	0	0.4	0.1	0	9.4	0.3	0.1	1.5	1.3	0	0.4	0.1	1.4	2.8	
Red King Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dungeness Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Shrimp	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	0.5	
Scallop	0.1	0	0.6	2.7	1.6	3.7	0	0	0	3.8	0	0	0	0	0	
Other Inverts	0	77.6	12.6	18.1	10.7	17.2	4.4	28.7	18	16.3	89.7	19.6	30.6	7.8	7.7	
TOTAL INVERTS	0.1	77.6	13.7	20.8	12.4	30.3	4.7	28.8	19.4	21.4	89.7	20	30.7	9.7	11	
Other	0	13.1	0.8	0	2.2	0	2.9	0	1	0	75.2	2.4	5.6	12.8	5.3	
TOTAL CATCH(kg/km)	728.9	747.3	226.7	365	1118.3	699.1	462	1133.9	673.6	733.8	570.7	1300.8	274.7	350.4	168	

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Appendix B. (Page 14 of 25)

Haul	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210
Location	SANAK	SANAK	SANAK	SANAK	SANAK	MORZHOV	MORZHOV.								
Month/Day/Year	8/6/96	8/6/96	8/6/96	8/6/96	8/6/96	8/6/96	8/6/96	8/7/96	8/7/96	8/7/96	8/7/96	8/7/96	8/7/96	8/7/96	8/7/96
Station	126	138A	138B	138C	137	MOP	MOK	MOH	MOL	MOI	MOG	MOF	MOD	MOB	MOC
Longitude Start	162 33.2	162 25.3	162 24.9	162 18.9	162 24.1	162 58.3	163 0.1	162 59.9	162 58.2	162 58.1	162 59.7	163 1.8	163 3.1	163 3.5	163 7.2
Latitude Start	54 29.1	54 28.7	54 26.9	54 26.4	54 30.1	54 50.9	54 53.7	54 57.0	54 55.4	54 57.0	54 58.6	54 59.1	55 1.8	55 3.6	55 1.6
Heading, Degrees	94	90	111	272	322	0	145	165	160	337	333	327	330	180	154
Average Depth (m)	141	143	143	150	146	77	95	99	110	101	86	79	84	55	71
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.1	0.9
Bottom Temperature	5.2	5.2	5.2	5.2	5.2	6.5	6.1	6.3	6.1	6.3	6.3	6.3	6.3	6.5	6.5
-----kilograms/kilometer-----															
Pollock	0	0	0.1	0	0	10.3	314.1	60.3	99.9	25.6	761.1	55.5	894	96.2	7.9
Pacific Cod	6	26	29.2	9.8	14.3	9.8	4.7	20.2	15.3	12.6	4.9	8.4	7.7	38	47.7
Pac Ocean Perch	0	0	0	0	0.6	0	0	0	0	0	0	0	0	0	0
Rougheye Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thomyhead Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Rockfish	0	0	21.5	1.2	2	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0.2	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	0	0	0	0	0	32.9	0	7.4	24.4	11	0	21.3	0	19.3	0
Other Roundfish	1.7	1	0.5	3.1	3.3	3.1	0	1.2	0	0	0	0.2	0	0	0
TOTAL ROUNDFISH	7.8	27	51.2	14.1	20.2	56.2	318.8	89.1	139.6	49.2	765.9	85.5	901.7	153.4	55.8
g															
Arrowtooth Flounder	176.7	61.9	108.4	37.1	115.9	14.4	159.7	7.4	66.6	120.8	151	170.6	57.1	51.3	77.8
Flathead Sole	90.1	57.9	35.6	55.9	61.3	6.2	176	121.8	177.6	274.6	111.7	39.8	215.6	121.9	67.5
Rock Sole	0	0	0	0	0	91.6	0	99.7	57.7	16.5	9.1	12.8	9.5	0	12.4
Rex Sole	0	1	3.3	0	0	1	0	0	0	0	0	0	0	0	0
Dover Sole	0	0	12	0	0	0	0	0	0	0	0	0	0	0	0
Pac Halibut	11.2	4.1	12.9	0	0	37.1	16.8	28.1	20.4	45.7	24.2	55.5	31	23.6	35.7
Starry Flounder	0	0	0	0	0	0	0	0	84.3	0	0	0	0	0	0
Yellowfin Sole	0	0	0	0	0	72	216.6	137.8	91	150.1	0	112.3	12.7	535.4	123.8
Other Flatfish	0	0	0	2.2	0	18.5	43.3	19.7	24.4	0	0	25.6	57.1	0	11.2
TOTAL FLATFISH	278	124.9	172.2	95.2	177.3	240.9	612.4	414.5	522	607.8	296	416.6	382.9	732.1	328.3
Skates	2.5	0.6	3	0	0	0	4.4	0	26.9	0	0	0	0	0	0
Spiny Dogfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Elasmobrnh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	2.5	1.5	0.5	9.1	2.4	4.3	5.5	1.7	3.5	1.6	2.1	1.2	0.6	0.1	0
Red King Crab	0	0	0	0	0	0	0	0	0	0	0	0	1.6	0	0
Dungeness Crab	0	0	0	0	0	0	0	0.5	0	0	1.8	1.4	0	0.3	0
Shrimp	0.4	0.6	0.3	0	0.5	1.1	0	1.3	0.2	0.9	0	0	0	0	0
Scallop	0	0.1	0.1	0	0	1	0	0.3	0	0	0	0.2	0	0	0
Other Inverts	1.7	14.8	20.8	3.2	8.4	38.1	2.7	9.8	55.5	11.9	12.1	12.8	3.2	150.7	4.4
TOTAL INVERTS	4.6	17	21.7	12.3	11.4	44.5	8.2	13.7	59.2	14.5	16	15.6	5.4	151.1	4.4
Other	0.9	17.8	13.6	3.1	0.5	15.4	0	0.6	2.2	7.3	1.5	0.7	1.6	12.8	34.9
TOTAL CATCH(kg/km)	293.8	187.4	261.8	124.7	209.4	357	943.8	517.9	749.9	678.8	1079.4	518.4	1291.6	1049.4	423.2

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Haul	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225
Location	MORZHOV.	MORZHOV.	MORZHOV.	MORZHOV.	MORZHOV.	MORZHOV.	COLD BAY								
Month/Day/Year	8/7/96	8/7/96	8/8/96	8/8/96	8/8/96	8/8/96	8/8/96	8/8/96	8/9/96	8/9/96	8/9/96	8/9/96	8/9/96	8/9/96	8/9/96
Station	MOJ	MON	MOU	MOV	MOR	MOS	MOO	BEG	156A	BEA	BEB	BED	BEC	BEE	BEF
Longitude Start	163 4.4	163 2.9	163 13.6	163 9.2	163 9.8	163 4.9	163 0.9	162 10.5	162 7.1	162 10.4	162 8.9	162 9.6	162 10.7	162 9.1	162 6.9
Latitude Start	54 53.7	54 51.9	54 46.7	54 47.7	54 49.4	54 50.0	54 51.8	54 57.9	54 58.8	55 8.6	55 8.3	55 6.7	55 5.5	55 3.8	55 1.0
Heading, Degrees	44	243	57	270	63	59	60	107	180	207	180	180	180	185	211
Average Depth (m)	64	91	82	80	90	86	91	79	88	27	71	80	44	73	95
Distance Fished (km)	1.7	1.9	1.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.6	1.7	1.9
Bottom Temperature	6.5	6.2	6.5	6.3	6.3	6.3	6	7.3	7.4	8.7	7.4	7.3	7.9	7.5	7.3
-----kilograms/kilometer-----															
Pollock	0.1	327.5	33.7	0	163.6	316.1	0	109.8	27.2	0	38.3	0	0	145.5	69.2
Pacific Cod	17.9	0.9	28.1	1.8	5.5	1.5	0	3.2	17.3	142.2	1.3	2.2	1.3	2.9	2.3
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rougheye Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thornyhead Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0	0.2	0	0.5	0.2	0	0	0	0
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	0	0	22.4	0.9	20.5	0	59.8	13.7	21.4	0.9	0	0	8.8	0	0
Other Roundfish	1.2	0	0	5.3	0	0	1.2	0	13.6	1	0	0	0	0	19.2
TOTAL ROUNDFISH	19.2	328.3	84.2	8	189.5	317.6	61	126.9	79.4	144.6	39.8	2.2	10.1	148.4	90.7

G															
Arrowtooth Flounder	117.2	154.5	0	59.2	166.1	90.9	46.6	4.8	68	1.7	0	35.7	7.7	142.9	107.7
Flathead Sole	84.4	305.8	0	228	342.5	163.7	103.9	122.1	250.5	3.4	271.5	647.7	34.4	541.1	580.9
Rock Sole	7	30.9	347.7	19.2	40.9	17.1	6	0	12.6	51	0	17.9	9.9	0	0
Rex Sole	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dover Sole	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pac Halibut	3.9	44.4	60.7	38.7	34.6	0	4.5	29.1	43.8	35.3	40.6	24.2	3.6	14.3	36.7
Starry Flounder	0	0	0	0	0	0	0	0	0	0	48.8	48.4	0	0	0
Yellowfin Sole	126.6	74.1	25.3	43.5	89.5	40.9	90.8	27.4	89.3	263.6	713.6	510	80.9	214.4	369.3
Other Flatfish	29.3	74.1	227.1	48.8	0	0	21.5	0	73.8	100.3	0	53.6	37.6	68.9	0
TOTAL FLATFISH	368.3	683.9	860.7	437.3	673.5	312.6	273.3	183.5	538.1	455.3	1074.4	1337.4	184.1	981.7	1094.7

Skates	0	0	0	0	0	0	27.1	0	42.6	25.1	0	17.8	0	0	8.3
Spiny Dogfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Elasmobranchs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	0.2	0.3	0.1	0.6	0.1	0.5	42.3	0.4	2.2	0.1	0.2	0.1	0	0.1	2
Red King Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dungeness Crab	0	0	0	0	0	0	0	0	0	1.8	0.5	0	0	0	0
Shrimp	0	1.6	0	1.7	2.5	0	0	0	0	0	0	0	0	0	4.6
Scallop	3.6	0	0	0	0	0.5	0	8	1.6	0	0	0	0	0.4	0
Other Inverts	4.2	0	8.4	76.6	7.7	2.3	0	18.8	39.8	0	52.2	3.8	92	270.6	61.5
TOTAL INVERTS	8	1.6	8.5	78.9	10.3	3.3	42.3	27.2	43.6	1.8	52.9	3.9	92	271.1	68.1
Other	4.7	1.6	117.8	24.4	2.5	18.2	3	0.3	5.8	0	34.8	28	0	2.1	3.8
TOTAL CATCH(kg/km)	400.2	1015.7	871.1	548.7	875.8	651.7	406.6	337.9	709.6	626.8	1201.9	1389.4	286.2	1403.3	1265.6

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Haul	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240
Location	COLD BAY	COLD BAY	COLD BAY	COLD BAY	COLD BAY	COLD BAY	COLD BAY	COLD BAY	COLD BAY	COLD BAY	COLD BAY	COLD BAY	COLD BAY	PAVLOF/N	PAVLOF/V
Month/Day/Year	8/9/96	8/9/96	8/9/96	8/10/96	8/10/96	8/10/96	8/10/96	8/10/96	8/11/96	8/11/96	8/11/96	8/11/96	8/11/96	8/12/96	8/12/96
Stallon	157A	145B	COO	132A	COM	COGA	COH	COGB	COB	COC	COE	COF	COJ	VOL	VOO
Longitude Start	162 7.4	162 9.6	162 22.9	162 24.0	162 27.6	162 28.8	162 24.1	162 26.7	162 35.8	162 32.5	162 32.5	162 31.3	162 31.8	161 59.2	161 56.5
Latitude Start	54 55.1	54 52.9	55 0.0	54 58.5	55 0.9	55 8.4	55 6.6	55 7.6	55 13.6	55 13.6	55 11.7	55 9.6	55 2.7	55 13.2	55 11.3
Heading, Degrees	150	20	93	47	96	333	303	134	157	160	153	111	107	119	0
Average Depth (m)	75	68	102	33	79	91	48	55	55	55	68	95	0	66	77
Distance Fished (km)	1.7	1.3	1.9	1.1	1.3	1.5	1.3	1.5	1.9	1.9	1.9	1.5	1.5	1.9	1.9
Bottom Temperature	7.3	7.3	7.5	7.6	7.6	8.8	8.8	9	8.9	8.9	8.9	8.9	7.8	6.1	6
-----kilograms/kilometer-----															
Pollock	0	0.2	94.5	0	91.2	0	0.2	0	1.9	2.1	0	358	90.3	0	104.4
Pacific Cod	8.7	13.1	48.6	0.7	2	23.2	0.6	5.1	19.8	8.2	11	11.4	6.4	29.4	25.2
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rougheye Rocklsh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thornyhead Rocklsh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Rocklsh	0	0	0	0	0	0.2	0	0	0	0	0	0	0	0	0
Sablefish	0	0.3	0	0	1.8	0	0	0	0	0	0	0	0	0	0
Herring	0	0	0	0	0	0	0.2	0	0.3	0	0	0	0.1	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	9.1	0	37.9	0	26.1	39.3	14.8	0	9.7	36.7	19.9	0	0	4.5	43.7
Other Roundlsh	3	2.2	5.4	1.7	3.7	4.7	0	9.5	0	8.5	4.4	0	3.8	3	0
TOTAL ROUNDFISH	20.8	15.8	186.4	2.4	124.7	67.5	15.9	14.6	31.7	55.5	35.4	369.4	100.6	36.9	173.3
62	Arrowtooth Flndr	19.7	34.2	10.8	1.7	22.3	0	0	0	0	0	0	25.1	6	43.7
	Flathead Sole	115	214	359.3	40.5	100.4	365.7	91.4	120.2	21.3	97.9	139.3	220	85.3	257.3
	Rock Sole	0	10.7	154	116.5	0	82.5	0	0	0	0	0	182.7	75.3	30.3
	Rex Sole	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Dover Sole	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Pac Halibut	4.7	44.6	17.8	17.2	15.2	0	0	0	0	30.6	0	0	109.1	27.9
	Starry Flndr	0	0	0	0	18.6	0	101.4	253.1	120.4	0	185.7	223.7	0	42.4
	Yellowfin Sole	102.9	359.5	159.4	57.4	327.4	597.7	531.3	575.9	397.9	479.6	380.3	387.8	260.9	614.6
	Other Flatfish	56	15	32.4	47.3	0	0	0	0	0	0	0	77.8	42.4	0
	TOTAL FLATFISH	298.3	678	733.7	280.7	483.9	1045.9	724.1	949.2	539.6	608.2	705.3	1014.3	633.5	1021

Skates	9.2	1.9	0	7.6	10.3	0	0	0	0	0	0	4.3	0	4.6	0
Splny Dogfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Elasmobrh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	0.4	0.1	4.6	0.1	1	29.8	0.2	26.6	0.1	0.3	25.4	1.3	0.1	0.4	5.8
Red King Crab	0	0	0	0	9.6	0	0.1	23.3	0.1	0	0.1	0.1	0.1	0.1	0
Dungeness Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0.9	0
Shrimp	0.8	0	0	0	0	6.3	1.5	1.9	1.9	0	1.1	0	0	0	0
Scallop	4.3	4.1	0.2	1.1	0	0	0	0	0	0	0	0	5.4	0	0
Other Inverts	137.6	40.7	40.5	172.2	16.7	94.4	29.5	17.6	42.8	40.8	2.2	223.7	100.4	3	16.8
TOTAL INVERTS	143.1	44.8	45.3	173.4	27.3	130.5	31.3	69.4	44.8	41.1	28.8	225.1	105.9	4.4	22.6
Other	6.1	0	8.1	11.8	0.9	19.6	0	98.1	0	2.1	1.1	0	5	0	20.2
TOTAL CATCH(kg/km)	477.4	740.6	973.5	476	647.1	1263.5	771.3	1131.2	616.1	706.8	770.5	1613.1	845	1067	1206.7

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Appendix B. (Page 17 of 25)

Haul	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	
Location	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	
Month/Day/Year	8/12/96	8/12/96	8/12/96	8/12/96	8/12/96	8/12/96	8/12/96	8/12/96	8/13/96	8/13/96	8/13/96	8/13/96	8/13/96	8/13/96	8/13/96	
Station	VOP	VOMA	VOFA	VOFB	VOG	VOMB	VON	VOR	VOQ	VOH	VOI	VOJ	VOD	VOC	VOB	
Longitude Start	161 55.2	161 50.3	161 50.7	161 48.7	161 46.8	161 48.0	161 45.1	161 45.0	161 47.8	161 40.1	161 37.2	161 30.6	161 32.8	161 34.6	161 41.5	
Latitude Start	55 11.5	55 13.9	55 15.5	55 15.9	55 15.3	55 14.3	55 14.0	55 11.9	55 12.0	55 16.1	55 16.6	55 17.4	55 18.9	55 18.3	55 18.5	
Heading, Degrees	57	0	180	45	90	180	229	310	270	50	80	283	69	270	90	
Average Depth (m)	99	88	84	99	104	97	119	119	95	102	110	77	110	97	102	
Distance Fished (km)	1.7	1.9	0.9	1.9	1.9	1.9	1.9	1.9	1.9	1.3	1.9	1.3	1.9	1.9	1.9	
Bottom Temperature	5.9	5.7	5.7	5.7	5.3	5.4	5.3	5.3	5.5	5.6	5.5	6.2	5.7	5.8	5.5	
-----kilograms/kilometer-----																
Pollock	35.6	0	61.2	57.1	41.1	871.7	21.2	36.8	124.9	271.1	59.8	5.7	43.2	65	245.7	
Pacific Cod	71.2	41.5	102.6	32.7	56.2	24.2	45.6	28	19	25	46.2	68.2	45	81.3	32	
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rougheye Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Thornyhead Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sablefish	0	0	0	0	0	0	0	0	0	0	0	0.5	0	0	0	
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Scorpions	49.9	2.5	25.2	0	0	0	104.2	24.6	60.4	8.6	0	1.5	0	14.4	40.9	
Other Roundfish	7.1	0	0	1.2	0	0	5.9	12.6	2	4.3	1.7	1.5	14.4	1.2	0	
TOTAL ROUNDFISH	163.9	44	189	91	97.4	895.8	176.9	102	206.3	309.1	107.7	77.4	102.6	181.8	318.6	
C	Arrowtooth Flounder	57.1	300.7	66.5	180.8	107.9	194.5	94.5	180	124.9	258.1	155.4	57.5	240.1	348.8	238
	Flathead Sole	366	405.2	269.9	456.9	480.6	224.2	208.3	233.2	255.8	154	145.1	135	657.5	437.8	215
	Rock Sole	11.9	25.5	9	16.6	0	4.6	21.2	0	0	0	5.1	0	43.2	0	17.9
	Rex Sole	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Dover Sole	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Pac Halibut	2.6	1.7	15.7	21.1	35.4	26.7	35	29.4	14.3	38	0	21.2	0	42.4	30.6
	Starry Flounder	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Yellowtail Sole	180.6	61.2	431.9	80.9	46.3	8	100.3	26.6	56.4	4.3	44.4	173.8	98.4	93.8	28.1
	Other Flatfish	35.6	53.5	0	26.2	56.5	0	0	0	0	0	0	13	134.4	48.1	0
TOTAL FLATFISH	653.8	847.7	792.9	782.5	726.7	458	459.3	469.3	451.3	454.3	350.1	400.4	1183.7	971	529.7	
Skates	0	13.4	0	0	0	22.5	0	27.1	0	6.6	0	35.5	26.6	0	0	0
Spiny Dogfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Elasmobranchs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	3.8	0.6	0.9	0.1	4	0.1	6.3	0.3	1.1	3.2	1.7	1.8	2.9	6.1	1.3	
Red King Crab	0	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0
Dungeness Crab	0	0	0	0.3	0	0	0	0	0	0	0	0	0	0	0	0
Shrimp	1.4	3.8	0	0.2	1.3	2.3	1	2.3	1	2.2	0.9	0	1.2	0	5.4	
Scallop	0	0	0	0	0	0	0	0	0	0	0	0	1.2	0	0	0
Other Inverts	45.2	10.2	59.5	9.5	97.6	13.7	90.7	142.2	62.5	29.2	99.1	109.8	104.5	69.8	23.1	
TOTAL INVERTS	50.5	14.6	65.3	10.1	103	16	97.9	144.8	64.6	34.6	101.6	112.9	108.6	75.9	29.8	
Other	1.2	86.7	3.6	0.2	0	1.1	2.9	10.2	3	2.2	7.7	18	6	2.4	2.5	
TOTAL CATCH(kg/km)	869.4	1006.5	1050.8	883.8	927.1	1393.6	737.1	753.3	725.3	806.7	587	644.1	1427.5	1211.1	880.7	

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Appendix B. (Page 18 of 25)

Haul	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270
Location	PAVLOF/V														
Month/Day/Year	8/13/96	8/13/96	8/13/96	8/13/96	8/14/96	8/14/96	8/14/96	8/14/96	8/14/96	8/14/96	8/14/96	8/14/96	8/14/96	8/14/96	8/14/96
Stalon	VOA	PAU	PARA	PAOA	PAH	PAI	PAE	PAB	PAC	PAF	PAJ	PAM	PAQ	PAS	PAP
Longitude Start	161 43.1	161 40.5	161 40.6	161 40.4	161 36.2	161 34.7	161 33.6	161 29.0	161 25.9	161 31.1	161 31.3	161 32.3	161 31.3	161 31.5	161 35.2
Latitude Start	55 17.8	55 21.3	55 23.3	55 25.7	55 30.7	55 31.9	55 34.1	55 36.2	55 36.3	55 34.0	55 31.5	55 29.6	55 26.8	55 24.0	55 27.1
Heading, Degrees	7	340	22	180	180	140	140	120	116	134	180	180	178	14	63
Average Depth (m)	113	128	104	84	59	35	22	20	18	27	42	55	48	37	77
Distance Fished (km)	1.9	1.9	1.9	1.3	1.3	1.9	1.9	1.9	1.9	1.9	1.9	1.1	0.9	1.1	1.7
Bottom Temperature	5.3	5.5	5.8	6.1	6.6	6.5	6.5	7.1	7.1	6.5	7	8.7	7.3	7.9	6.2
-----kilograms/kilometer-----															
Pollock	148.5	50.1	36.2	85.6	93.1	0	0	0	0	3.1	0	14.9	0	0	0
Pacific Cod	39.3	285.9	63.1	20	24.1	98.1	77.1	27.9	35.9	28.9	51.6	48.8	0	4.1	2.8
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rougheye Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thomyhead Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Rockfish	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0	0	0.5	0.2	0	12.3	3	0	2.5
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2.2
Sculpins	9.3	10.4	0	85.6	26.1	0	29.4	42.3	2.4	0	0	2.5	0	24	0
Other Roundfish	2.3	0	4.8	6.9	0	0.3	0.9	8.4	1.2	1	0.5	0	0	0.1	0
TOTAL ROUNDFISH	199.4	346.4	104.1	198.1	143.2	98.4	107.3	79	39.7	34.1	64.4	69.2	0	28.3	7.4

Arrowtooth Flndr	187.9	110.6	140	37.6	0	0	1.8	0	2.4	0	0	2.5	6.6	10.1	0
Flathead Sole	213.4	112.7	159.3	421.3	111.8	2.9	1.8	2.1	12.2	2.1	19.1	49.8	16.4	0.1	239
Rock Sole	20.9	87.6	219.6	246.6	0	0	14.7	0	9.8	14.3	0	0	144.7	123.8	158.1
Rex Sole	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dover Sole	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Pac Halibut	51.1	30.7	44.7	26	29.8	36.7	30.8	15.6	43.3	28.6	24	27.2	7.2	13.1	25.9
Starry Flndr	0	0	0	0	67	0	0	0	0	0	0	0	0	0	0
Yellowfin Sole	69.6	592.8	140	71.9	424.6	457.1	312.3	1175.8	630.2	514.1	1210.9	529.8	116.7	35.4	366.2
Other Flatfish	27.9	0	43.5	92.5	126.7	0	0	126.9	0	65.3	0	0	0	0	84.8
TOTAL FLATFISH	570.8	934.4	747	895.9	759.9	496.8	361.4	1320.4	697.9	624.4	1254	609.3	291.7	182.5	874.1

Skates	0	0	0	0	5.6	0	0	0	48.8	0	0	6.8	0	0	0
Spiny Dogfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Elasmobrnh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	0.3	19.1	0.3	0.5	0.1	0	0	0.1	0	0.1	0	0.4	0.1	0.1	0.1
Red King Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dungeness Crab	0	0	0	0	3.2	3	0.4	0	0	0.6	1.1	1.8	1.5	0	0
Shrimp	2.3	0	1.2	0	0	0.5	0	0	0	0	1	1.5	0	0	0
Scallop	0	0	0	0	0	0	0	0	0	0	4.6	0	0	0.6	0
Other Inverts	24.4	296.4	132.7	41.1	137.8	158.2	55.1	0	58.6	32.7	102.5	135.5	119.4	82.1	258.3
TOTAL INVERTS	26.9	315.4	134.2	41.6	141	161.8	55.5	0.1	58.6	33.4	109.2	139.3	121.1	82.8	258.3
Other	0	4.2	41	13.7	5.6	0	18.4	9.8	46.4	29.6	28.6	12.4	93.7	195.8	1.9
TOTAL CATCH(kg/km)	797.1	1600.4	1026.4	1149.3	1055.2	756.9	542.6	1409.2	891.5	721.4	1456.3	837	506.5	489.4	1141.7

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Haul	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285
Location	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	PAVLOF/V	BEAVER						
Month/Day/Year	8/14/96	8/15/96	8/15/96	8/15/96	8/15/96	8/15/96	8/15/96	8/15/96	8/16/96	8/16/96	8/16/96	8/16/96	8/16/96	8/16/96	8/16/96
Station	PAL	PAOB	PARB	PAU	PAWA	VOE	228	245	278	312A	BVC	BVA	BVB	BVD	311B
Longitude Start	161 36.6	161 39.1	161 35.3	161 34.5	161 32.0	161 28.5	161 18.0	161 15.0	160 56.3	160 36.4	160 54.3	160 54.4	160 52.4	160 53.1	160 32.6
Latitude Start	55 28.6	55 26.6	55 24.7	55 20.3	55 22.0	55 19.0	55 16.0	55 16.5	55 23.2	55 24.5	55 27.2	55 29.3	55 30.0	55 27.7	55 26.0
Heading, Degrees	200	202	157	0	180	96	67	90	0	100	217	180	180	186	90
Average Depth (m)	77	91	80	97	75	62	75	82	110	59	95	46	37	79	135
Distance Fished (km)	0.7	1.9	1.9	1.9	1.1	1.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9	0.9	1.9
Bottom Temperature	6.4	6.5	6.1	5.9	6.5	6.8	6.4	6.3	6.7	7.2	6.6	7	7.1	6.8	4.7
-----kilograms/kilometer-----															
Pollock	0	31.8	0	60.7	67.3	0.1	0.3	0	101.9	0	38.1	0	0	0	92.3
Pacific Cod	73.8	47.9	21	14.6	21.3	31.3	7.4	1.2	19.9	159	7	18.6	7.6	3.6	10.2
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Rougheye Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Thomyhead Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sablefish	0.5	0	0	0	0.7	0	0	0	0	0	0	0	0.8	0.2	1
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	0	53.8	0	0	90.9	18.1	0.3	0	9.3	7.4	12	3.3	6.3	0	0
Other Roundfish	0	2.4	3.2	4.3	1.7	1.3	0	3.2	3.1	0	0	0.5	0.4	1.6	0
TOTAL ROUNDFISH	74.4	136	24.2	79.6	182	50.9	7.9	4.4	134.1	166.4	57.1	21.2	14.4	6.2	102.5
G	Arrowtooth Flndr	20.4	63.6	0	84.6	114.5	45.4	700.8	522.2	146.7	33	94.2	27.4	16.3	51.6
	Flathead Sole	85.6	344.9	391.9	758.8	74.1	23.3	182.3	183.7	74.1	2.6	108.2	11	37.6	66.1
	Rock Sole	440.3	71	114.3	13	178.5	112.7	116.8	19.3	26.2	59.9	92.2	27.4	76.4	30.7
	Rex Sole	0	0	0	0	0	0	0	0	4.6	0.2	0	0	0	0
	Dover Sole	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Pac Halibut	92.6	15.1	39	9	15.5	1.8	9.2	7.2	52.1	32	134.1	22.1	5.2	0
	Starry Flndr	0	0	117.5	0	0	45.4	0	0	0	0	0	0	0	0
	Yellowfin Sole	318	137	228.6	110.6	276.1	71.3	14.3	206.3	101.9	20.8	140.2	243.8	206.7	87
	Other Flatfish	0	0	0	52.1	0	0	74.1	0	0	0	6.6	33.8	0	0
TOTAL FLATFISH	956.9	631.5	891.4	1028	658.6	299.9	1023.3	1013	405.6	148.5	568.8	338.3	376	235.4	355.1
Skates	0	0	0	0	0	22	92.7	46.2	0	0	4.6	25.9	0	23.9	5.1
Spiny Dogfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Elasmobrh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	0	1.9	9.6	1.9	0.1	0	0.3	1.4	0.2	0	0	0	0	0	4.1
Red King Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dungeness Crab	0	0	0.5	0	0	0	0	0	0	0	1.9	12.7	41	10.4	0.1
Shrimp	0	0.3	0.3	0.2	0	0	0	0	0	0	0	0	0	0	0.2
Scallop	0	0	0	0	0	0.1	0	1	13.7	0.2	18.6	1.3	0.4	21.2	1.3
Other Inverts	313.8	211.4	307	550.6	270	94.6	5.7	16.1	19.3	28.3	188.3	21.4	7.6	92.5	12
TOTAL INVERTS	313.8	213.6	317.4	552.8	270.1	94.7	6	18.5	33.2	28.6	208.9	35.4	49	124.1	17.7
Other	81.5	19.5	19.6	0	67.3	14.3	2.9	1.6	0	7	30	18.7	5	43.5	3.4
TOTAL CATCH(kg/km)	1426.7	1000.6	1252.6	1660.4	1177.9	481.8	1132.8	1083.7	572.9	350.5	869.4	439.4	444.4	433	483.8

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Appendix B. (Page 20 of 25)

Haul	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	
Location	BEAVER	BEAVER	BEAVER	BEAVER	BEAVER	BEAVER	BEAVER	BEAVER	BEAVER	STEPOVAK	STEPOVAK	STEPOVAK	STEPOVAK	STEPOVAK	IVANOF	
Month/Day/Year	8/16/96	8/16/96	8/16/96	8/17/96	8/17/96	8/17/96	8/17/96	8/17/96	8/17/96	8/19/96	8/19/96	8/19/96	8/19/96	8/19/96	8/20/96	
Station	329C	BAF	BAE	BAA	BAC	BAD	311A	329B	348	368A	STD	STA	STB	STE	400X	
Longitude Start	160 29.0	160 33.3	160 36.7	160 41.2	160 37.2	160 35.3	160 34.6	160 25.4	160 18.5	160 8.8	159 49.3	159 48.7	159 45.5	159 46.0	159 29.6	
Latitude Start	55 25.9	55 28.7	55 28.7	55 32.2	55 31.4	55 31.4	55 27.4	55 27.8	55 34.3	55 33.9	55 45.4	55 49.0	55 49.3	55 47.3	55 49.5	
Heading, Degrees	50	333	180	114	161	151	90	40	117	270	11	175	180	180	156	
Average Depth (m)	137	77	110	40	95	95	137	174	188	181	119	106	113	123	66	
Distance Flshed (km)	1.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.7	1.9	
Bottom Temperature	4.7	6.5	5.5	7.8	6	5.7	4.7	4.9	5.2	5.2	4.7	5	5	4.9	7	
kilograms/kilometer																
Pollock	72.7	0	17.9	0	149.3	284.2	151.9	101.1	35.2	20.7	125	13.8	26.2	467.9	0	
Pacific Cod	1.4	1.4	40.8	10	49.8	17.4	10.8	159.9	35.5	14.4	9	2.8	10.3	15.1	32	
Pac Ocean Perch	0	0	0	0	0	0	0	0	0.5	0	0	0	0	0	0	
Rougheye Rockfish	0	0	0	0	0	0	0	0	0	0.4	0	0.2	0	0	0	
Thornyhead Rockf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Rockfish	0	0	0	0.4	0	0	0	0	0	0	0	0	0	0	0	
Sablefish	0	0	0	0	0	0	0	0	0.3	0	0	0	0	0	0	
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sculpins	0	0	92.6	11.8	0	0	56.5	54.8	0	0	0	0	0	0	2.3	
Other Roundfish	0	0.8	1.1	0	0	0	0.9	0	0	0	0	0.1	0	0	6.5	
TOTAL ROUNDFISH	74	2.2	152.5	22.2	199.1	301.6	220.1	316.1	71.2	35.5	134	16.9	36.4	483	40.8	
9	Arrowtooth Flndr	258.3	125.1	176.2	7.9	341.7	256.3	192.5	160.2	199.9	191.7	387.6	143.7	276	107.5	200.8
	Flathead Sole	130.5	45.5	183.7	22.3	255.6	233.2	146.6	81.7	189.9	253.8	108.4	102.4	195.4	157.5	417.4
	Rock Sole	0	58.5	0	18.4	17.2	18.5	0	0	0	0	0	0	0	0	11.3
	Rex Sole	0	3.2	0	0	2.9	0	0	0	0	16.6	0	0	2	0	0
	Dover Sole	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Pac Halibut	0	7.1	23.4	65.4	20.6	17.6	29	17.8	11.1	71.1	0	0	15	44.9	7.7
	Starry Flndr	0	0	0	0	100.5	0	0	0	0	0	0	0	0	0	0
	Yellowfin Sole	0	144.6	28.3	102.2	74.7	101.6	19.4	0	0	0	6.6	29.5	40.3	0	74.5
	Other Flatfish	0	112.1	23.9	17.1	114.8	0	0	0	0	0	0	11.8	0	0	0
TOTAL FLATFISH	388.9	496.2	435.6	233.3	928	627.1	387.6	259.7	400.9	533.2	512.6	287.4	528.7	309.9	711.7	
Skates	0	0	0	16.7	23.7	0	0	0	0	0	3.3	0	0	0	0	39.7
Splny Dogfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Elasmobrh	0	0	12.3	0	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	2.7	0.1	2.7	0.1	0.1	1.6	2.3	4.2	2.3	3.6	0.2	0.1	0.1	0.2	49.7	
Red King Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dungeness Crab	0	4.2	0.3	0	0	1.8	0	0	0	0	0	0	0	0	0	0.6
Shrimp	0.1	0	0.3	0	0.3	0	0	0.1	0.8	0	0	0	0	0	0	0
Scallop	0	1	0.8	0	1.3	0.3	0	0.3	0	0	1.6	1.3	1.4	0.7	0	0
Other Inverts	16.1	32.5	76.2	78.6	22.9	9.2	22.9	2.2	3.8	21.4	15.6	12.4	8.1	4.8	29.3	
TOTAL INVERTS	18.9	37.7	80.2	78.7	24.6	13	25.2	6.8	6.9	25	17.4	13.8	9.8	5.7	79.7	
Other	4	6.5	1.5	237.2	0	0	5.3	0.5	24.3	1.4	0	0.5	2	0	2.3	
TOTAL CATCH(kg/km)	485.8	542.6	682.1	588.1	1175.4	941.6	638.2	583.2	503.2	595.1	667.3	318.6	576.7	798.5	874.2	

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Appendix B. (Page 21 of 25)

Haul	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	
Location	IVANOF	IVANOF	IVANOF	IVANOF	KUJULIK	KUJULIK	KUJULIK	KUJULIK	KUJULIK	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD		
Month/Day/Year	8/20/96	8/20/96	8/20/96	8/20/96	8/22/96	8/22/96	8/22/96	8/22/96	8/22/96	8/23/96	8/24/96	8/24/96	8/24/96	8/24/96		
Station	4000	4007	4008	4915	4298	4290	4296	4301	4302	4308	UYBX	UYQX	UYMX	UYKX	UYO	
Longitude Start	159 28.7	159 25.7	159 25.4	159 10.7	157 45.3	157 50.9	157 46.3	157 41.1	157 40.6	157 37.7	153 59.9	153 54.4	153 53.9	153 52.7	153 47.8	
Latitude Start	55 47.2	55 46.3	55 43.7	55 51.9	56 32.0	56 36.3	56 37.3	56 33.7	56 32.1	56 32.3	57 44.4	57 29.3	57 34.0	57 35.5	57 34.1	
Heading, Degrees	180	71	0	224	69	130	165	162	114	125	154	342	357	317	330	
Average Depth (m)	75	82	101	59	86	27	73	95	101	117	139	146	106	132	82	
Distance Fished (km)	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.1	1.9	1.9	1.9	1.7	1.9	
Bottom Temperature	7	7.1	6.5	8	7.3	9.5	9	7.1	6.9	6.6	6.6	7.1	7	6.8	7.9	
-----kilograms/kilometer-----																
Pollock	1.2	81.9	510.9	0.2	61.7	0	0	45.6	14.6	0	171.2	0	29.9	0	21.9	
Pacific Cod	11.2	7.8	3.5	12.2	2.5	87	22	4.1	0	11.8	5.4	28.5	0	2	6.9	
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rougheye Rockfish	0	0	3.4	0	0	0	0	0	0	0	0	0	0	0	0	
Thomyhead Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	1.2	0	0	
Sablefish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.5	
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sculpins	25.4	0	0	0	0	7.9	17.2	0	0	27.4	0	0	0	2.1	65.6	
Other Roundfish	3.5	1.4	0	0	4.8	0.8	0	0.5	3.8	0	0	1.7	1.3	2.2	3.3	
TOTAL ROUNDFISH	41.3	91.1	517.7	12.4	68.9	95.7	39.3	50.3	18.4	39.1	177.6	30.2	32.4	6.3	98.2	
19	Arrowtooth Flounder	112.6	76.3	171.1	185.9	156.5	22	200.7	92.3	29.2	34.5	165.3	123.8	68.7	138.7	80.7
	Flathead Sole	111.4	199.2	199.2	111.6	183.7	4.7	573.5	196	237.5	110.5	102.3	133	149.2	154.5	151.2
	Rock Sole	0	14.9	0	12.4	0	29.9	0	0	0	0	0	0	0	0	0
	Rex Sole	0	0	2.5	0	0	0	0	1	1	0	0	0	0	0	0
	Dover Sole	0	0	0	0	0	0	0	6.2	0	0	57.1	0	7.7	13.7	0
	Pac Halibut	21.2	5.9	12	35.3	55.6	13.9	44.1	85.4	33.6	0	17.2	6.4	17.2	29.5	33.9
	Starry Flounder	0	0	0	0	0	0	0	0	0	0	0	0	0	0	80.7
	Yellowfin Sole	88.4	46.5	0	45.5	0	70.8	63.1	0	0	0	0	0	0	0	57.1
	Other Flatfish	81.2	65.2	0	0	0	48	0	0	0	0	33.5	0	0	0	80.7
	TOTAL FLATFISH	414.8	408.1	384.9	390.7	395.8	189.3	881.4	380.9	301.2	145	375.3	263.3	242.9	336.5	484.3
20	Skates	7.9	0	0	6.4	66	17.9	201.7	36.2	60.9	93.5	18.2	34.1	2.6	8.1	22.3
	Spliny Dogfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Other Elasmobr.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Tanner Crab	0.7	0.2	1.8	0.1	0.2	0.1	1.2	0.3	0.9	3	0.1	0.1	3.2	0.1	6.3
	Red King Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Dungeness Crab	1.6	0	0	0	0	0	0	0	0	0	0	0	0.7	0	8.9
	Shrimp	0	0	0	0	0.7	0	1.5	0.5	1	0.5	0	1	1.8	0.1	0
	Scallop	11	2.1	1.4	17.9	0.6	0	3.2	8.1	10	2.7	3	0	0	0	0
	Other Inverts	4.2	78.2	3.8	95	7.7	48.1	55.9	4.1	12	24.5	52.2	6.8	14.2	22.3	42
	TOTAL INVERTS	17.4	80.5	7	113	9.3	48.1	61.8	13.1	23.9	30.7	55.2	7.7	20	22.5	57.2
Other	10.9	5.6	1.3	4.2	0	44.9	0	14	1	138.9	21.7	12.5	7.2	1.1	1.7	
TOTAL CATCH(kg/km)	492.4	585.3	910.9	526.6	540	395.9	1184.1	494.5	405.5	447.3	648	347.7	305	374.5	663.7	

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Appendix B. (Page 22 of 25)

Haul	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	
Location	W.KOD	W.KOD	W.KOD	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	W.KOD	W.KOD	W.KOD	W.KOD	
Month/Day/Year	8/24/96	8/24/96	8/24/96	9/4/96	9/5/96	9/5/96	9/5/96	9/5/96	9/5/96	9/5/96	9/5/96	9/6/96	9/6/96	9/6/96	9/6/96	
Stalon	UYEX	UYFX	UYHX	224	171Y	172	222	223	198	199	200	KUY	KUYX	KUL	KULX	
Longitude Start	153 55.5	153 50.5	153 43.3	153 49.7	154 6.0	154 2.1	154 15.4	153 55.5	153 55.4	153 48.3	153 38.4	153 11.8	153 12.7	153 12.5	153 13.6	
Latitude Start	57 38.7	57 40.3	57 39.8	58 9.3	58 19.1	58 17.0	58 10.1	58 9.4	58 13.7	58 14.5	58 15.3	57 46.5	57 44.5	57 50.1	57 51.9	
Heading, Degrees	0	272	270	44	97	24	114	47	40	40	180	3	15	0	145	
Average Depth (m)	179	146	95	198	0	126	71	203	218	196	181	68	22	82	97	
Distance Fished (km)	1.9	1.5	1.9	1.9	1.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.7	1.9	0.9	
Bottom Temperature	6.4	7	7.2													
-----kilograms/kilometer-----																
Pollock	32.6	72.2	89.4	0	4.9	17.8	1.9	7.1	6.4	0	0	1.9	0	81.5	114.4	
Pacific Cod	3.7	12.3	2	4.6	11.3	10.8	12.1	2.4	2.2	6.4	1.1	6.4	0	1.7	1.5	
Pac Ocean Perch	0	0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rougheye Rockfish	0	0	0	4.2	0	0	0	2.6	3.2	5.3	1.8	0	0	0	0	
Thomyhead Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sablefish	0	0	0	0	0	0	0	0	0	0	0	1.8	1.7	2.2	0	
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0.7	0	0	
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sculpins	0	0	36.5	2.2	0	0	0.3	1.3	1.3	1	0.6	3.7	34.7	0	52.2	
Other Roundfish	0	2.6	39.7	5.6	1.2	1.8	0.3	0.9	1.8	3.8	0	5.7	25.3	0	0	
TOTAL ROUNDFISH	36.2	87.6	167.5	16.6	17.4	30.5	14.6	14.4	15	16.5	3.6	19.5	82.4	85.4	168	
G8	Arrowtooth Flounder	161.7	134.7	31.5	178.5	32.8	82.9	7.5	131.4	116.1	116.6	134.8	0	0	111.4	276.8
	Flathead Sole	104.2	127.8	188.8	29.8	101.4	27.3	14.3	10.3	8.6	32.8	63.6	822	50.5	165.1	86.3
	Rock Sole	0	0	0	0	0	0	0	0	0	0	0	41.1	0	0	0
	Rex Sole	0	0	0	0	0	0	0.7	0	0	0	0	0	0	0	0
	Dover Sole	17.4	0	0	0	0	0	3.3	0	0	0	0	0	0	0	6
	Pac Halibut	13.1	10.3	21.7	12.9	20.3	11.2	12.3	9.2	23.3	11.6	7.6	131.5	11.3	54.8	18.4
	Starry Flounder	0	0	0	0	0	0	0	0	0	0	0	100.9	0	0	0
	Yellowfin Sole	0	0	0	0	11.8	0	0	0	0	0	0	130.8	615.9	111.4	44.2
	Other Flattfish	0	0	20.1	0	0	0	1.8	0	0	0	0	0	72.7	177.9	0
TOTAL FLATFISH	296.3	272.8	262.1	221.2	166.2	121.4	40	150.8	148.1	161	205.9	1226.3	750.3	620.6	431.6	
Skates	29.4	14.7	32.2	26.8	198.8	33.9	126.3	4	52.4	42.8	20.8	32.6	0	0.2	0	
Spiny Dogfish	0	0	0	0	1.8	0	0	0	0	0	0	0	0	0	0	
Other Elasmobr.	0	0	0	0	0	0	0	51.6	0	0	0	0	0	0	0	
Tanner Crab	3.8	62.9	1.7	12.9	2.9	1.4	0.1	11.7	8.9	14.5	8.9	0.1	0	21.1	70	
Red King Crab	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	
Dungeness Crab	0	0	1	0	0	0	2.1	0	0	0	0	6.1	1.3	25.2	3.9	
Shrimp	2.2	1	0	1.5	1.2	2.1	0.3	1.5	1.3	2.4	1.3	1.9	0	0	0	
Scallop	0	0	2.8	0.3	1.5	2.2	3.7	0.3	0	0	0	0	0	0	0	
Other Inverts	39.7	2	35.3	2.3	59.3	3.1	0.6	6.9	4.1	3.8	3.4	22.5	189.5	18.2	60.3	
TOTAL INVERTS	45.6	65.9	40.8	17	65	8.8	7.8	20.5	14.4	20.7	13.6	30.5	190.8	65.5	134.1	
Other	0.1	0.9	10.3	1.5	1.3	5.2	11.1	0	1.8	0.5	1.3	0	3.2	19.2	4	
TOTAL CATCH(kg/km)	407.6	442	513	283	450.4	199.8	199.8	241.3	231.6	241.5	245.2	1308.9	1006.7	791	737.8	

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Appendix B. (Page 23 of 25)

Haul	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345
Location	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	N.MAIN.						
Month/Day/Year	9/6/96	9/6/96	9/6/96	9/6/96	9/7/96	9/7/96	9/7/96	9/7/96	9/8/96	9/8/96	9/8/96	9/8/96	9/8/96	9/8/96	9/8/96
Station	KUK	KUJ	KUI	KUM	KUG	KUF	KUE	KUD	RAA	174	147	146	145	117	173
Longitude Start	153 15.4	153 17.7	153 23.2	153 7.1	153 26.1	153 18.3	153 17.1	153 10.6	153 13.2	153 38.9	153 29.6	153 39.2	153 49.2	153 46.9	153 48.3
Latitude Start	57 55.3	57 56.3	57 58.5	57 51.8	58 2.4	58 1.8	58 1.2	57 59.1	58 8.3	58 17.7	58 23.6	58 22.9	58 25.9	58 26.8	58 19.3
Heading, Degrees	299	310	297	295	177	270	180	107	323	30	200	200	200	46	210
Average Depth (m)	144	163	238	66	73	137	124	40	119	177	181	174	119	124	205
Distance Fished (km)	1.9	1.9	1.9	1.7	1.9	0.9	1.3	0.6	1.9	1.9	1.9	1.9	1.9	1.9	1.9
Bottom Temperature															
-----kilograms/kilometer-----															
Pollock	106.6	102.8	0	98.5	0	122	324.1	0	43	0	5.6	0	3.4	0	0
Pacific Cod	4.5	11.8	2.6	2.5	104.8	7	46.5	0	22.4	0	2.1	0	6.1	2.8	0
Pac Ocean Perch	0	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0
Rougheye Rockfish	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.3
Thornyhead Rockf	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Other Rockfish	0.6	0.7	0	0	0.4	0	0.9	0	1.2	0	0	0	0	0.2	0
Sablefish	0	0	0	0.7	0	0	0	0	0	0	0	0	0	0	0
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Salmon	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	3.8	0	0.6	0	0	0	0	0	4.3	0.4	0	0	0.6	1.3	1.4
Other Roundfish	3.3	0	5.5	0	1.7	0	11.6	1.1	2.9	0	0	2.7	1.2	5.5	7.3
TOTAL ROUNDFISH	119	116.4	8.6	101.8	106.9	129	383.1	1.1	73.9	0.4	7.7	3.3	11.3	9.8	9
-----kilograms/kilometer-----															
Arrowtooth Flndr	291.4	264.6	68.8	15.2	259.6	145.8	188.8	15.5	206.5	103.5	136.5	226	79.2	174.9	70.7
Flathead Sole	116.2	186.5	69.4	295.5	27.8	108.6	90.5	4.5	150.5	17.4	12.5	11.6	50.1	3.4	11.7
Rock Sole	0	0	0	56.8	8.9	0	0	144.5	0	0	0	0	0	0	0
Rex Sole	0	0	0	0	11.1	47.6	5.9	0	0	0	0	0	0	0	0
Dover Sole	110.5	0	0	0	14.4	0	73	0	8.6	0	13.8	0	0	0	0
Pac Halibut	18.6	0	15.4	29.3	59.9	14	29.7	1.1	14	24.7	6.6	16.8	8.2	0	19.2
Starry Flndr	0	0	0	337.2	0	0	0	0	0	0	0	0	0	0	0
Yellowfin Sole	0	0	0	496.3	0	0	0	3.2	0	0	0	0	0	0	0
Other Flatfish	0	0	0	68.2	0	0	0	7.7	0	0	0	0	0	0	0
TOTAL FLATFISH	536.7	451.1	153.6	1298.4	381.6	316.1	385.8	176.6	379.6	145.6	169.4	254.4	137.5	178.3	101.6
-----kilograms/kilometer-----															
Skates	0	10.9	28.3	27.8	28	28.9	3.8	0	69.7	23.9	18	35.5	65.8	39	48.2
Spliny Dogfish	0	0	0	2.3	0	0	0	0	0	0	0	0	3.9	0	0
Other Elasmobrh	0	0	0	0	0	0	0	0	0	0	0	0	0	0	114.1
Tanner Crab	24.5	68.8	54.6	0.9	0	6.5	0.5	0	5.8	9.2	7	3.4	0.1	0.2	8.5
Red King Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Dungeness Crab	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Shrimp	1	1	0.6	0	0	3	1.5	0	1.5	2	0.6	1.7	2.3	4.1	1.6
Scallop	0	0	0	0	0.5	0	0.5	1.1	3.8	0.2	1.2	1.1	9.8	13.8	0.4
Other Inverts	13.3	13.3	16	26.5	26.7	17.2	137	66.2	33	4.6	2.5	5.3	17.7	0.7	8.4
TOTAL INVERTS	38.8	83.1	71.2	27.4	27.3	26.7	139.5	67.3	44	16.1	11.4	11.4	29.9	18.8	18.9
Other	0	0	1.7	3.8	0	1.5	46.6	0	5.7	0.4	0.3	0.4	1.7	0.3	0.7
TOTAL CATCH(kg/km)	694.4	661.4	283.4	1481.5	543.7	502.3	958.9	245	572.9	186.3	206.9	305.1	250.2	246.3	292.6

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Appendix B. (Page 24 of 25)

Haul	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	
Location	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	N.MAIN.	W.KOD	
Month/Day/Year	9/8/96	9/9/96	9/9/96	9/9/96	9/9/96	9/9/96	9/9/96	9/10/96	9/10/96	9/10/96	9/10/96	9/10/96	9/10/96	9/10/96	9/11/96	
Station	171X	171	144	118	90	119	120	121	91	60	61	31	2	3	PAA	
Longitude Start	154 10.1	154 15.4	153 58.6	153 40.6	153 31.6	153 28.5	153 17.0	153 10.5	153 23.9	153 20.6	153 14.6	153 13.0	153 12.3	153 2.0	152 57.1	
Latitude Start	58 19.7	58 18.2	58 26.2	58 28.1	58 32.5	58 28.6	58 30.0	58 29.5	58 34.5	58 37.3	58 39.5	58 43.2	58 47.2	58 49.2	58 18.1	
Heading, Degrees	269	65	62	55	56	200	213	211	40	42	211	211	7	180	327	
Average Depth (m)	102	110	91	141	124	150	172	170	135	123	154	152	139	146	113	
Distance Fished (km)	1.9	1.7	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.5	1.9	1.9	1.9	1.3	
Bottom Temperature																
	kilograms/kilometer															
Pollock	9.4	12.7	5.8	36.7	18.8	36.9	0	11.3	31.9	13	88.9	19	0	13	18.4	
Pacific Cod	3.7	7.3	1.9	45.1	4.2	4.3	5.8	9.4	32.3	2	28.4	7.7	5	2.4	3.9	
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Rougheye Rockfish	0	0	0	0	0	0	0	0	0	0	1.2	1.1	0	17.8	0	
Thomyhead Rock	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other Rockfish	0	0	0.1	0.4	0.7	0	0	0	0	0	0	0	0	0	0	
Sablefish	0	0	0	0	0	0	0	1.9	0	0	0	0	0	0.5	0.2	
Herring	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Salmon	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Sculpins	1.7	0	0	0	0	1.1	0	0	0	5.4	0	0	0	0	3.4	
Other Roundfish	5.8	0.6	4.5	11.3	3.4	5.4	2.4	4.9	5.7	5.4	2.6	2.4	3.1	6.5	5	
TOTAL ROUNDFISH	22.5	20.5	12.3	93.5	27.1	47.7	8.2	27.6	70	25.8	121.1	30.1	8.1	40.1	30.9	
TOTAL	Arrowtooth Flndr	1.7	44.5	1.3	274.2	109.2	184.6	190.5	173.5	462.9	188.9	216.5	142.3	191	241.5	161.2
	Flathead Sole	94.8	115.6	121.5	25.5	19.6	38	18.4	9.2	21.9	51.8	20.6	23.7	39.7	16.1	164.6
	Rock Sole	0	0	0	0	0	0	0	0	0	0	0	0	2.1	0	
	Rex Sole	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Dover Sole	0	0	0	0	0	0	15.9	0	0	43.8	11.9	35.5	18.3	0	
	Pac Halibut	49.6	16.4	85.9	1.2	7	13.4	5.2	28.7	18.6	11.6	6	7.8	14.1	20.2	27.4
	Starry Flndr	0	0	7.7	0	0	0	0	0	0	0	0	0	0	0	50.4
	Yellowfin Sole	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Other Flatfish	0	0	59.1	0	28.6	0	0	0	0	13	0	0	0	0	28.5
	TOTAL FLATFISH	146	176.5	275.5	301	164.4	236	230	211.3	503.3	265.3	286.9	185.7	282.4	296.2	432.1
TOTAL CATCH	Skates	66.3	69.2	241.5	19.3	40.4	12	12.6	27.5	16.6	55.3	22.7	9.8	7.6	42.1	102.7
	Splny Dogfish	5.6	0	4.6	1.8	2.3	0	0	0	0.9	5	2.8	0	6.3	0	0
	Other Elasmobr	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Tanner Crab	91.6	6.9	0.2	0.6	0.2	18.3	11.3	5	0.3	0.1	1	0.1	0.1	1.2	72
	Red King Crab	0	10.8	0	0	0	0	0	0	0	0	0	0	0	0	
	Dungeness Crab	0	8.8	0.7	0	0	0	0	0	0	0	0	0	0	0	
	Shrimp	3.3	1.8	3.6	6.6	1.5	1.1	2.4	2.1	4	3.2	0.1	1.6	1	3.2	3.4
	Scallop	0	0	1.4	12.2	5.3	10.5	0.2	0.3	4.8	9.7	2	3.5	1.3	0.3	
	Other Inverts	27.3	0	24.8	4.5	19.6	11.4	4.8	8.7	0	1.1	3.6	23.8	0	18.6	50.4
	TOTAL INVERTS	122.2	28.3	30.7	24	26.6	41.3	18.7	16.1	9	14.1	6.7	28.9	2.4	23.3	125.8
TOTAL CATCH(kg/km)	Other	6.2	0.6	1.3	0	0	1.1	0	0.4	0	0.5	3.8	2.5	3.1	2.2	52.1
	TOTAL CATCH(kg/km)	368.7	295.2	565.9	439.6	260.9	338	269.5	282.9	599.8	366.1	444	257.1	309.9	403.9	743.7

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Appendix B. (Page 25 of 25)

Haul	361	362	363	364	365	366	367	368	369	370	371	372
Location	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD	W.KOD
Month/Day/Year	9/11/96	9/12/96	9/12/96	9/12/96	9/12/96	9/12/96	9/12/96	9/12/96	9/13/96	9/13/96	9/13/96	9/13/96
Station	MAA	KUN	KUO	KUP	KUS	KUT	KUV	KUX	KUXX	KUU	KUW	KUW
Longitude Start	153 5.2	153 22.7	153 23.9	153 27.0	153 32.0	153 33.0	153 31.2	153 31.6	153 22.7	153 24.5	153 29.8	153 31.6
Latitude Start	58 13.0	57 50.2	57 50.7	57 51.5	57 53.7	57 52.5	57 49.5	57 44.3	57 44.2	57 46.2	57 47.6	57 41.7
Heading, Degrees	287	124	300	300	145	137	165	3	356	315	137	150
Average Depth (m)	135	119	137	155	185	177	179	88	101	126	146	68
Distance Fished (km)	1.9	1.1	1.9	1.9	1.9	1.7	1.9	1.5	1.9	1.3	1.9	1.9
Bottom Temperature												
kilograms/kilometer												
Pollock	38.4	14.8	47	18.3	47.6	34.7	42	16.4	60.3	91.8	96.1	11.2
Pacific Cod	0	16.9	12.1	6.9	10.9	28.1	77.3	11.8	30.5	48.6	3.3	3.5
Pac Ocean Perch	0	0	0	0	0	0	0	0	0	0	0	0
Rougheye Rockfish	0	0	0	0	0	0	0	0	0.2	0	0	0
Thomyhead Rockf	0	0	0	0	0	0	0	0	0	0	0	0
Other Rockfish	2.1	0.5	0	0	0	0	0	0	0	0	0	0
Sablefish	0	0	0	0	0	0	0	0	1.8	1.2	2.1	0
Herring	0.1	0	0	0	0	0	0	0	0	0	0	0.4
Salmon	0	0	0	0	0	0	0	0	0	0	0	0
Sculpins	1.7	2.4	0	6.5	4.2	4	1.8	95	0.2	33.2	0	8.4
Other Roundfish	3	5.5	0	3.9	3	5	6.5	1.8	0	5.1	8.4	5.6
TOTAL ROUND FISH	45.4	40.1	59.1	35	65.7	71.8	127.6	126.8	92.4	180.7	107.9	31.4
Arrowtooth Flndr	178	169.6	259	265.7	161.9	248.2	136.8	73	258.8	356.8	182.7	139.7
Flathead Sole	192	130.3	83.2	86	20.8	62.6	58.1	71.2	147.9	127.4	55.3	352.2
Rock Sole	0	0	0	0	0	0	0	73	0	0	0	0
Rex Sole	0	0	0	0	0	0	0	0	0	0	0	0
Dover Sole	12.2	0	0	0	0	0	10.7	0	0	0	0	0
Pac Halibut	39.1	2.7	26.6	3.1	0	6.2	4.9	28.1	46.3	32.4	12.9	32
Starry Flndr	0	0	0	0	0	0	0	0	0	0	0	0
Yellowfin Sole	0	0	0	0	0	0	0	100.4	11.7	0	0	109
Other Flatfish	0	0	0	0	0	0	0	42	72	0	0	315.8
TOTAL FLATFISH	421.3	302.6	368.8	354.8	182.8	317	210.5	387.8	536.7	516.7	250.8	948.7
Skates	11.9	5.5	12.6	9.4	12.6	6.7	26.6	18.8	16.6	8	5.4	21.6
Spiry Dogfish	0	0	0	0	0	0	0	0	0	0	0	0
Other Elasmobrh	0	0	0	0	0	0	0	0	0	0	0	0
Tanner Crab	28.1	6.3	9.2	15.2	9.9	19.6	13.5	0.1	32.7	47.3	12.2	15.1
Red King Crab	0	0	0	0	0	0	0	0	0	0	0	0
Dungeness Crab	0	0	0	0	0	0	0	1.8	0	0	0	3.1
Shrimp	3.5	4.9	6.7	1.9	0.6	0	2.2	0	0.2	2.5	1.2	0
Scallop	0	0	0	0	0	0	0	8.8	0	0	0	0
Other Inverts	63	55.3	29.5	5.8	0	2	10.7	36.4	52.5	191.5	1.2	0
TOTAL INVERTS	94.5	66.6	45.5	22.9	10.5	21.6	26.5	47.1	85.5	241.4	14.6	18.2
Other	12.2	3.7	2.7	3.9	0	31.8	1.8	7.3	9.7	5.1	3.6	2.8
TOTAL CATCH(kg/km)	585.3	418.6	488.7	426	271.5	448.8	393	587.8	740.9	951.9	382.3	1022.7

Appendix C. Stations fished during the 1996 Westward Region trawl survey, divided by districts, sections, and strata with areas in square kilometers and square nautical miles.

KODIAK DISTRICT											
NORTHEAST SECTION			EASTSIDE SECTION			SOUTHEAST SECTION			SOUTHWEST SECTION		
Inner Marmot			Ugak Bay			South Sitkalidik			Alitak Flats		
<u>Station</u>	<u>KM²</u>	<u>NM²</u>	<u>Station</u>	<u>KM²</u>	<u>NM²</u>	<u>Station</u>	<u>KM²</u>	<u>NM²</u>	<u>Station</u>	<u>KM²</u>	<u>NM²</u>
KZA	11.7	3.4	UGAA	16.1	4.7	THA	15.1	4.4	645B	34.4	10.0
KZB	2.8	0.8	UGAB	4.7	1.4	THC	19.6	5.7	646A	27.2	7.9
KZC	12.4	3.6	UGAC	3.2	0.9	THD	28.7	8.3	646B	16.5	4.8
KZD	23.7	6.9	UGB	5.8	1.7	THF	22.4	6.5	646C	29.2	8.5
KZE	27.5	8.0	UGC	17.5	5.1	THG	21.5	6.3	646D	37.5	10.9
KZF	20.6	6.0	UGD	11.0	3.2	THH	19.3	5.6	682B	23.0	6.7
KZG	21.3	6.2	UGE	12.7	3.7	THI	21.7	6.3	683A	23.0	6.7
KZJ	21.5	6.3	UGF	15.8	4.6	THJ	17.9	5.2	683B	21.0	6.1
KZK	21.5	6.3	UGG	11.0	3.2	THK	16.5	4.8	683D	9.3	2.7
KZO	21.5	6.3	UGI	22.4	6.5	THL	9.3	2.7	684A	23.0	6.7
KZR	13.8	4.0	UGJ	21.5	6.3	THM	10.7	3.1	684B	10.3	3.0
KZS	3.1	0.9	UGM	16.9	4.9	THN	5.2	1.5	684C	8.8	2.5
	201.4	58.6		158.7	46.1		207.7	60.4		263.2	76.5
Middle Marmot			Kiliuda Bay			Offshore Twoheaded			Alitak Bay		
<u>Station</u>	<u>KM²</u>	<u>NM²</u>	<u>Station</u>	<u>KM²</u>	<u>NM²</u>	<u>Station</u>	<u>KM²</u>	<u>NM²</u>	<u>Station</u>	<u>KM²</u>	<u>NM²</u>
MOEX	78.4	22.8	KLA	21.0	6.1	686	86.0	25.0	ALA	3.1	0.9
MOGX	76.0	22.1	KLB	9.3	2.7	614	64.3	18.7	ALB	17.8	5.2
MOLX	77.7	22.6	KLC	19.6	5.7	615	99.8	29.0	ALC	8.2	2.4
MONX	86.0	25.0	KLD	18.2	5.3	651	86.0	25.0	ALD	13.1	3.8
MOPX	97.7	28.4	KLE	8.3	2.4		336.1	97.7	ALF	21.5	6.3
MOXX	81.2	23.6	KLF	15.1	4.4				ALG	20.0	5.8
	497.1	144.5	KLG	16.5	4.8				ALH	16.2	4.7
Outer Marmot			KLH	16.9	4.9				ALI	16.7	4.9
<u>Station</u>	<u>KM²</u>	<u>NM²</u>	KLI	21.5	6.3				ALJ	15.1	4.4
255	129.0	37.5	KLL	21.5	6.3				ALK	10.0	2.9
256	86.0	25.0		167.9	48.8				ALL	8.3	2.4
257	86.0	25.0	Horseshoe/Barnabas			725	86.0	25.0	ALM	18.2	4.7
283	129.0	37.5	486A	28.0	8.1	726	86.0	25.0	ALO	16.9	4.9
284	86.0	25.0	486B	29.4	8.6	727	86.0	25.0	ALP	19.3	5.6
	516.0	150.0	510B	63.2	18.4	728	86.0	25.0	ALQ	14.4	4.2
			510C	40.8	11.9	729	86.0	25.0	ALR	13.4	3.9
			511A	43.0	12.5	759	86.0	25.0		230.0	66.9
			511B	43.0	12.5	760	86.0	25.0			
						761	86.0	25.0			
							911.6	265.0			
Chiniak Gully						Compass Rose					
<u>Station</u>	<u>KM²</u>	<u>NM²</u>	533A	43.0	12.5	<u>Towers</u>	<u>KM²</u>	<u>NM²</u>	<u>Station</u>	<u>KM²</u>	<u>NM²</u>
369X	151.4	44.0	533B	43.0	12.5	858	86.0	25.0	608X	172.0	50.0
395	86.0	25.0	534B	21.5	6.3	891	86.0	25.0	676X	172.0	50.0
420	86.0	25.0	534D	28.4	8.25	892	86.0	25.0	677X	172.0	50.0
421	86.0	25.0	535A	21.5	6.3	920	86.0	25.0	678X	172.0	50.0
442	86.0	25.0	535B	21.5	6.3		344.0	100.0	712X	172.0	50.0
443	86.0	25.0	535C	21.5	6.3				750X	172.0	50.0
444	86.0	25.0	535D	21.5	6.3					1032.0	300.0
	667.4	194.0	559	86.0	25.0						
Chinlak			560	86.0	25.0						
<u>Station</u>	<u>KM²</u>	<u>NM²</u>	561	86.0	25.0						
CHA	6.5	1.6	587	86.0	25.0						
CHB	7.9	2.3	588	86.0	25.0						
CHE	20.6	6.0	589	86.0	25.0						
CHF	12.7	3.7	619	86.0	25.0						
CHG	34.7	10.1	620	86.0	25.0						
CHI	32.3	9.4	621	86.0	25.0						
CHJ	35.8	10.4	654	86.0	25.0						
CHK	8.6	2.5	655	86.0	25.0						
CHL	14.1	4.1	656	86.0	25.0						
	172.3	50.1	695	86.0	25.0						
			696	86.0	25.0						
				1673.3	486.4						

-Continued-

Appendix C. (page 2 of 3).

KODIAK DISTRICT (Continued)												
N.MAINTAIN SECTION			WESTSIDE SECTION				KUPREANOF-VIEKODA			UGANIK BAY		
Station	KM ²	NM ²	Station	KM ²	NM ²	Station	KM ²	NM ²	Station	KM ²	NM ²	
2	86.0	25.0	Uyak Bay			KUPREANOF-VIEKODA			Uganik Bay			
3	86.0	25.0	UYBX	21.5	6.3	KUD	27.2	7.9	KULX	2.1	0.6	
31	83.9	24.4	UYEX	30.0	8.7	KUE	11.4	3.3	KUL	2.7	0.8	
60	86.0	25.0	UYFX	22.1	6.4	KUF	11.3	3.3	KUN	2.8	0.8	
61	86.0	25.0	UYHX	4.1	1.2	KUG	15.5	4.5	KUO	8.0	2.3	
90	80.5	23.4	UYKX	13.9	4.0	KUI	6.4	1.9	KUP	13.3	3.9	
91	86.0	25.0	UYMX	20.9	6.1	KUJ	17.0	5.0	KUQ	20.6	6.0	
117	98.0	28.5	UYO	3.4	1.0	KUK	14.1	4.1	KUS	12.2	3.5	
118	86.0	25.0	UYQX	7.7	2.2	KUM	10.5	3.1	KUT	9.4	2.7	
119	86.0	25.0		123.6	35.9	KUY	4.1	1.2	KUU	13.7	4.0	
120	86.0	25.0					117.5	34.2	KUV	4.1	1.2	
121	86.0	25.0							KUW	5.2	1.5	
144	60.9	17.7	West Afognak						KUX	4.1	1.2	
145	86.0	25.0	Station	KM ²	NM ²				KUYX	2.6	0.8	
146	86.0	25.0	RAA	6.7	2.0					100.8	29.3	
147	86.0	25.0	PAA	15.1	4.4							
171	11.5	3.3	MAA	10.6	3.1							
171X	8.1	2.4		32.4	9.4							
171Y	29.2	8.5										
172	89.4	26.0										
173	86.0	25.0										
174	86.0	25.0	KODIAK DISTRICT TOTALS									
198	86.0	25.0										
199	86.0	25.0	SECTION			KM ²		NM ²				
200	86.0	25.0	Northeast			2054.2		597.2				
222	113.5	33.0	Eastside			1999.8		581.4				
223	86.0	25.0	Southeast			1799.4		523.1				
224	86.0	25.0	Southwest			1525.1		443.4				
	2209.1	642.2	Westside			374.4		108.8				
			N. Mainland			2209.1		642.2				
			Kodiak District			9962.0		2895.9				

CHIGNIK DISTRICT								
CHIGNIK BAY SECT.			IVANOF SECTION			KUJULIK SECTION		
Station	KM ²	NM ²	Station	KM ²	NM ²	Station	KM ²	NM ²
4256	24.1	7.0	4000	15.8	4.6	4298	19.3	5.6
4264	20.2	5.9	4007	59.5	17.29	4302	21.1	6.1
4265	6.6	1.9	4008	42.2	12.27	4303	21.5	6.3
4266	19.7	5.7	400X	5.6	1.6	4296	10.3	3.0
4267	21.5	6.3	4915	51.8	15.06	4308	17.2	5
4270	17.2	5.0		174.9	50.8	4296	10.3	3.0
4271	10.3	3.0				4290	21.5	6.3
4272	16.0	4.6					121.2	35.2
4274	21.5	6.3						
4277	21.5	6.3						
4278	21.5	6.3						
4282	21.5	6.3						
4312	22.0	6.4						
4964	9.6	2.8						
4286	21.5	6.3						
4287	29.8	8.7						
	253.12	73.6						
CHIGNIK DISTRICT TOTALS								
SECTION	KM ²	NM ²	SECTION	KM ²	NM ²	SECTION	KM ²	NM ²
Chignik Bay	253.1	73.6	Ivanof	174.9	50.8	Kokulik	121.2	35.2
							549.2	159.7

-Continued-

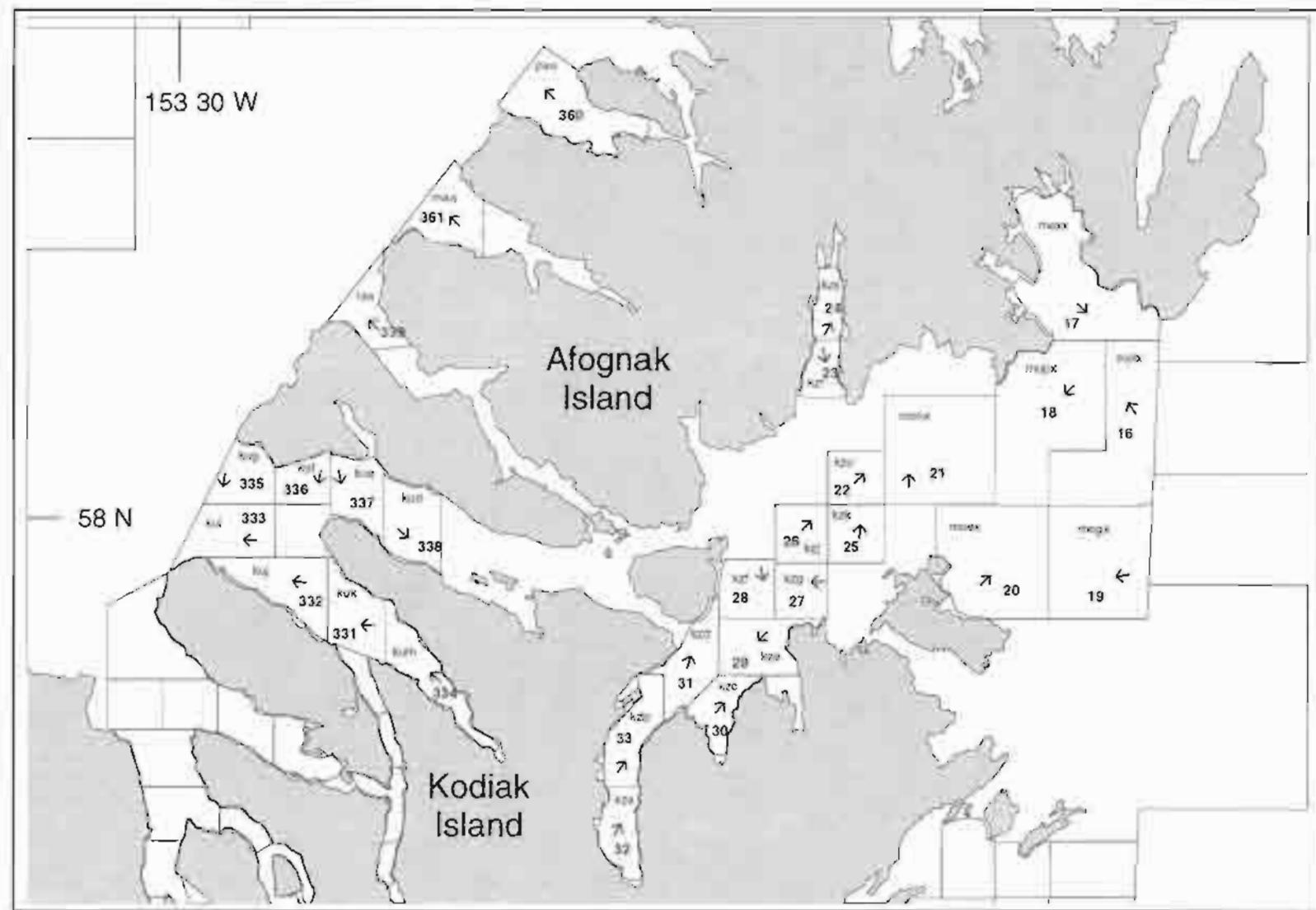
Appendix C. (page 3 of 3).

SOUTH PENINSULA DISTRICT								
SANAK SECTION			PAVLOF SECTION		COLD BAY SECTION		STEPOVAK SECTION	
Station	KM ^a	NM ^a	Station	KM ^a	NM ^a	Station	KM ^a	NM ^a
113	77.4	22.5	228	93.8	27.27	132A	24.3	7.05
125	77.4	22.5	245	88.0	25.57	145B	32.8	9.54
126	84.1	24.45	PAB	13.5	3.92	156A	44.3	12.88
137	86.0	25	PAC	13.7	3.98	157A	21.1	6.13
138A	46.4	13.5	PAE	20.8	6.06	BEA	4.9	1.42
138B	18.5	5.37	PAF	20.8	6.06	BEB	11.1	3.22
138C	57.1	16.6	PAH	15.0	4.36	BEC	8.2	2.37
	446.92	129.92	PAI	21.5	6.25	BED	17.6	5.11
			PAJ	16.9	4.92	BEE	21.5	6.25
			PAL	21.5	6.25	BEF	15.8	4.58
			PAM	21.5	6.25	BEG	20.4	5.92
			PAOA	6.7	1.96	COB	21.2	6.16
			PAOB	21.5	6.25	COC	15.3	4.45
			PAP	20.8	6.06	COE	21.2	6.16
			PAQ	8.5	2.46	COF	11.5	3.35
			PARA	19.1	5.56	COGA	9.8	2.86
			PARB	21.1	6.14	COGB	3.6	1.06
			PAS	12.8	3.73	COH	7.8	2.28
			PAU	21.5	6.25	COJ	20.8	6.06
			PAV	20.6	6	COM	18.6	5.4
			PAWA	15.4	4.49	COO	22.5	6.54
			VOA	22.5	6.53		374.2	108.8
			VOB	21.5	6.25			
			VOC	22.5	6.53			
			VOD	20.8	6.06			
			VOE	20.8	6.06	301	86.0	25.0
			VOFA	5.6	1.64	318	86.0	25.0
			VOFB	15.6	4.53	332B	43.0	12.5
			VOG	23.1	6.72	334	86.0	25.0
			VOH	21.8	6.34	335	86.0	25.0
			VOI	22.2	6.44	337	86.0	25.0
			VOJ	20.8	6.06	353	86.3	25.1
			VOL	9.1	2.65	354	86.0	25.0
			VOMA	11.9	3.47	371	80.8	23.5
			VOMB	17.0	4.94	373B	20.6	6.0
			VON	22.5	6.53	393	47.5	13.8
			VOO	18.2	5.3		794.2	230.9
			VOP	21.5	6.25			
			VOQ	16.0	4.64			
			VOR	21.2	6.16			
				869.9	252.9			

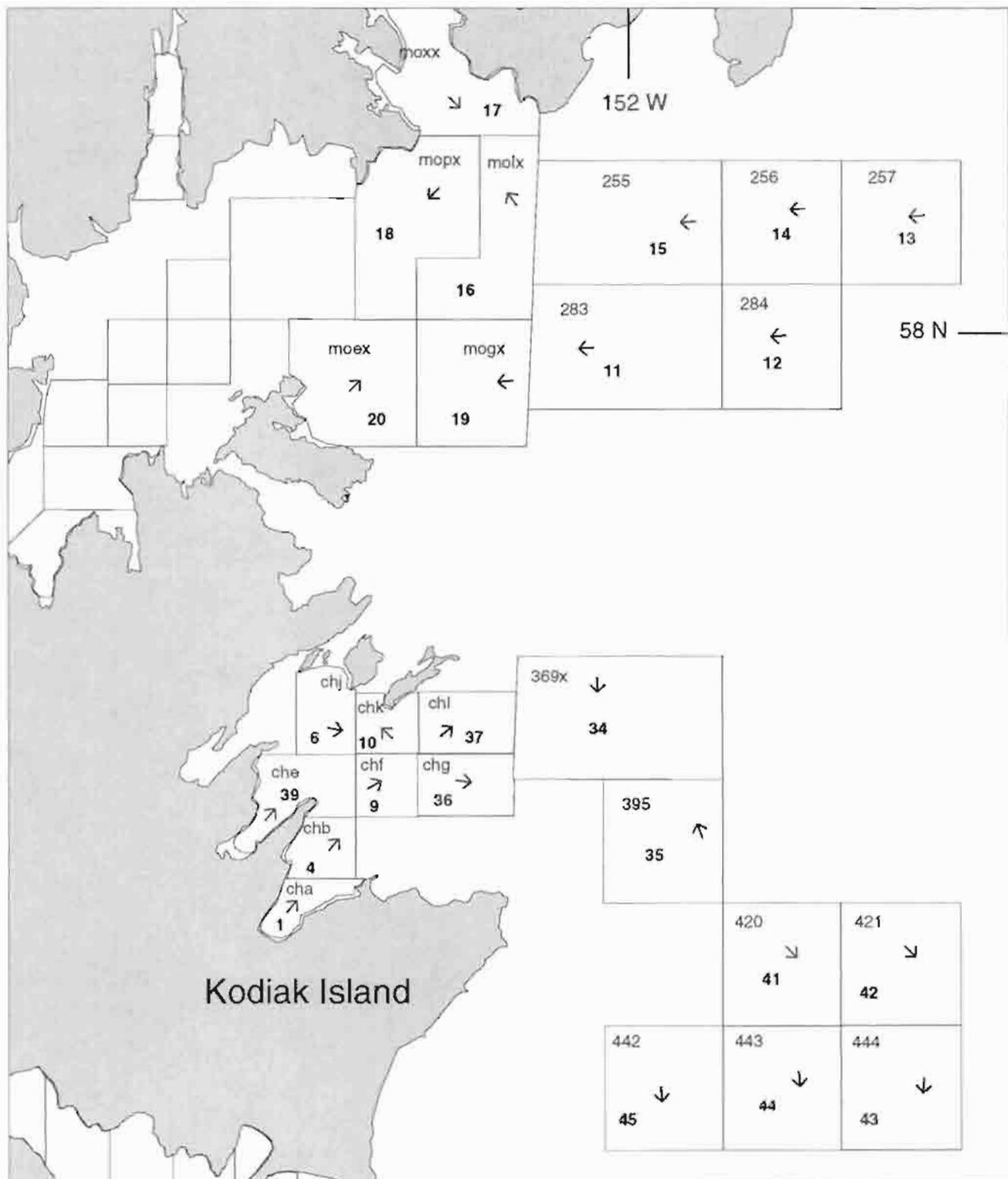
BEAVER/BALBOA SECTION		
Station	KM ^a	NM ^a
278	71.7	20.83
311A	15.5	4.51
311B	20.5	5.96
312A	22.4	6.5
329B	21.5	6.25
329C	21.5	6.25
348	86.0	25
BAA	12.0	3.5
BAC	16.9	4.92
BAD	10.4	3.03
BAE	12.8	3.71
BAF	10.9	3.16
BVA	15.3	4.45
BVB	14.0	4.07
BVC	18.9	5.5
BVD	25.4	7.39
	370.3	107.6

WEST NAGAI SECTION		
Station	KM ^a	NM ^a
301	86.0	25.0
318	86.0	25.0
332B	43.0	12.5
334	86.0	25.0
335	86.0	25.0
337	86.0	25.0
353	86.3	25.1
354	86.0	25.0
371	80.8	23.5
373B	20.6	6.0
393	47.5	13.8
	794.2	230.9

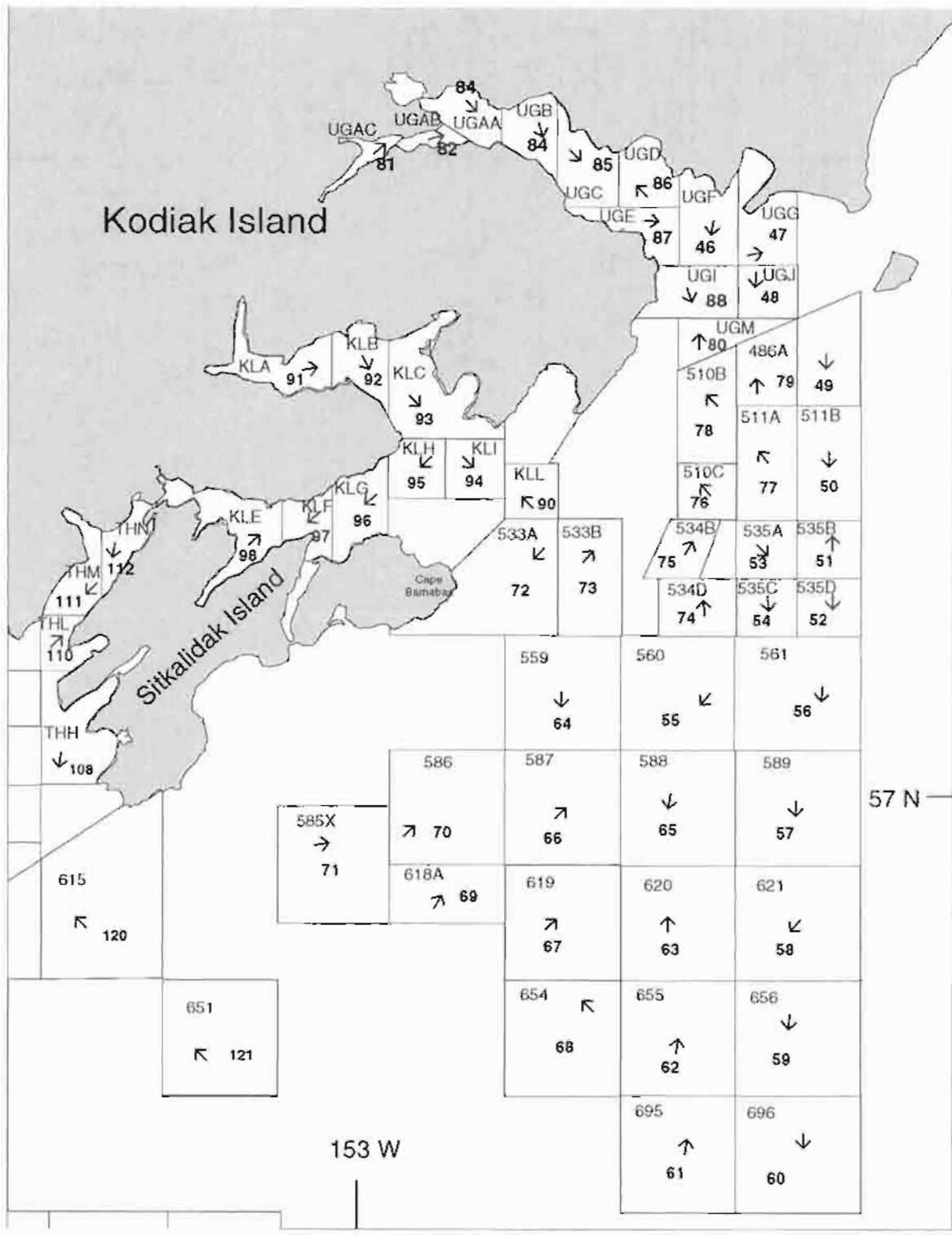
PENINSULA DISTRICT TOTALS		
SECTION	KM ^a	NM ^a
Sanak	446.925	129.9
Morzhovoi	503.344	146.3
Cold Bay	374.238	108.8
Pavlof	869.942	252.9
West Nagai	794.158	230.9
Beaver	370.282	107.6
Stepovak	123.943	36.0
	3482.8	1012.5



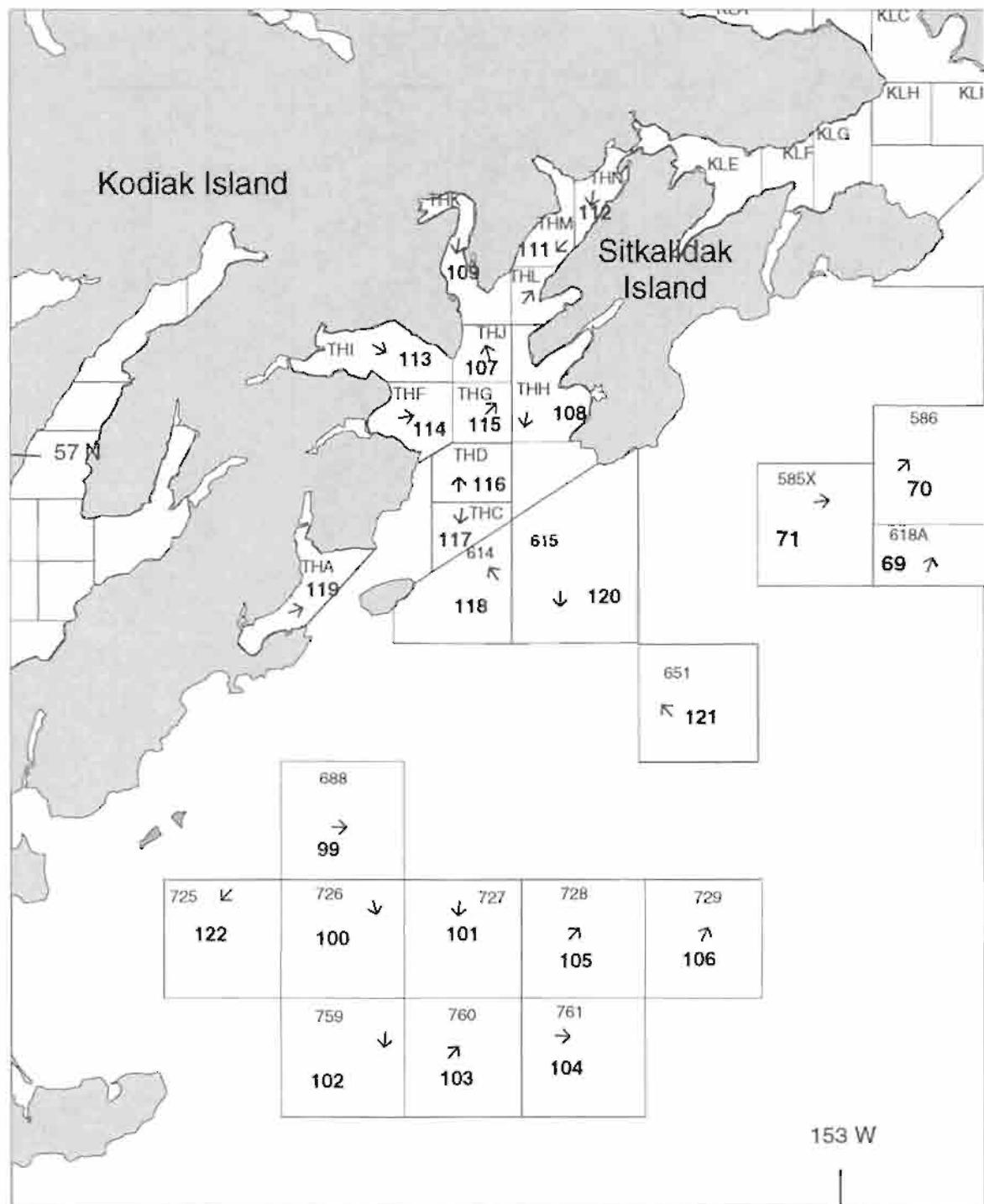
Appendix D.1 Station boundaries and names, trawl haul numbers (bold) and locations (arrows), north Kodiak Island and west Afognak Island: June and September, 1996.



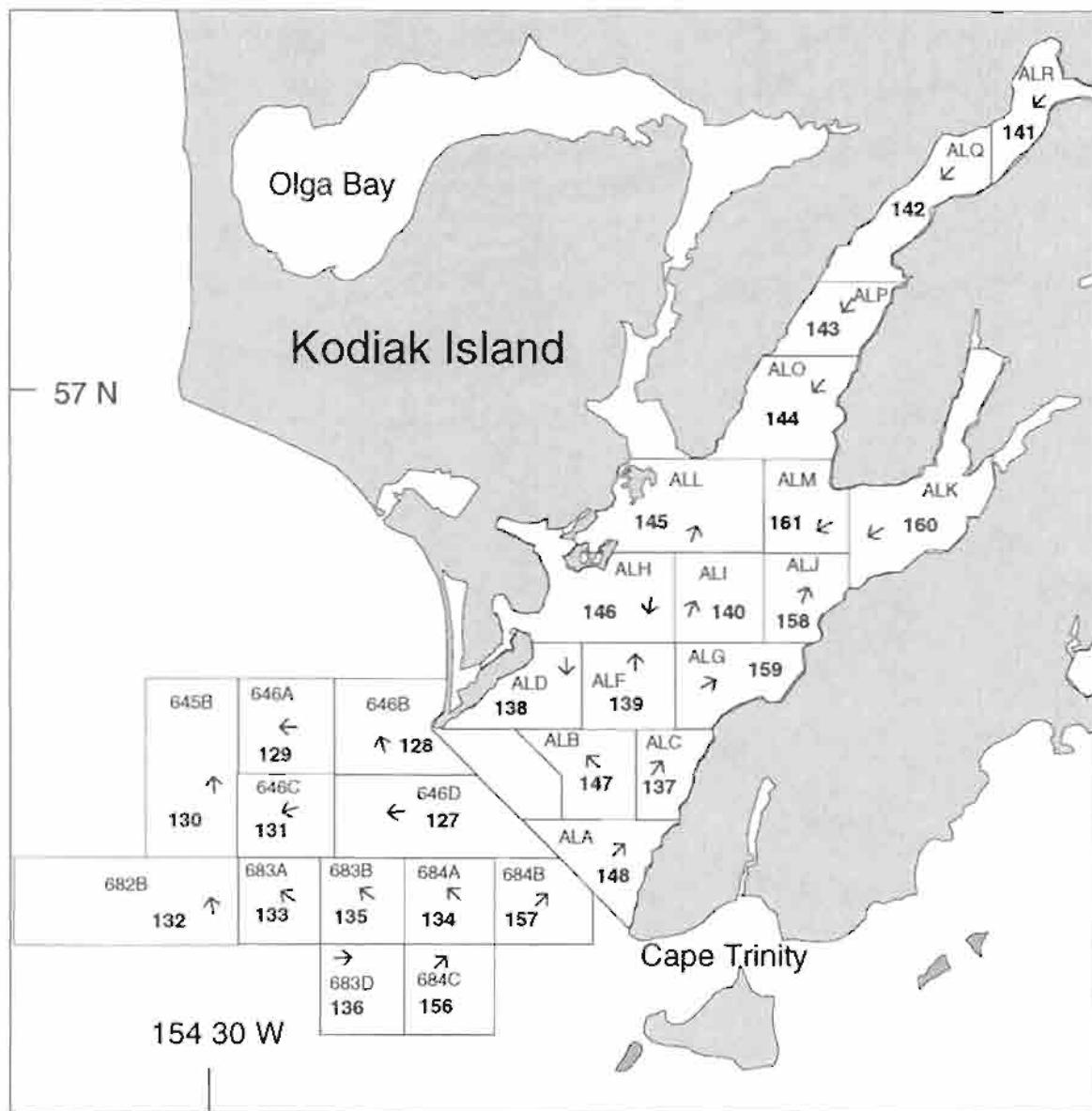
Appendix D.2 Station boundaries and names, trawl haul numbers (bold) and locations (arrows, offshore Marmot Bay, Chiniak Bay and Chiniak Gully, June 1996.

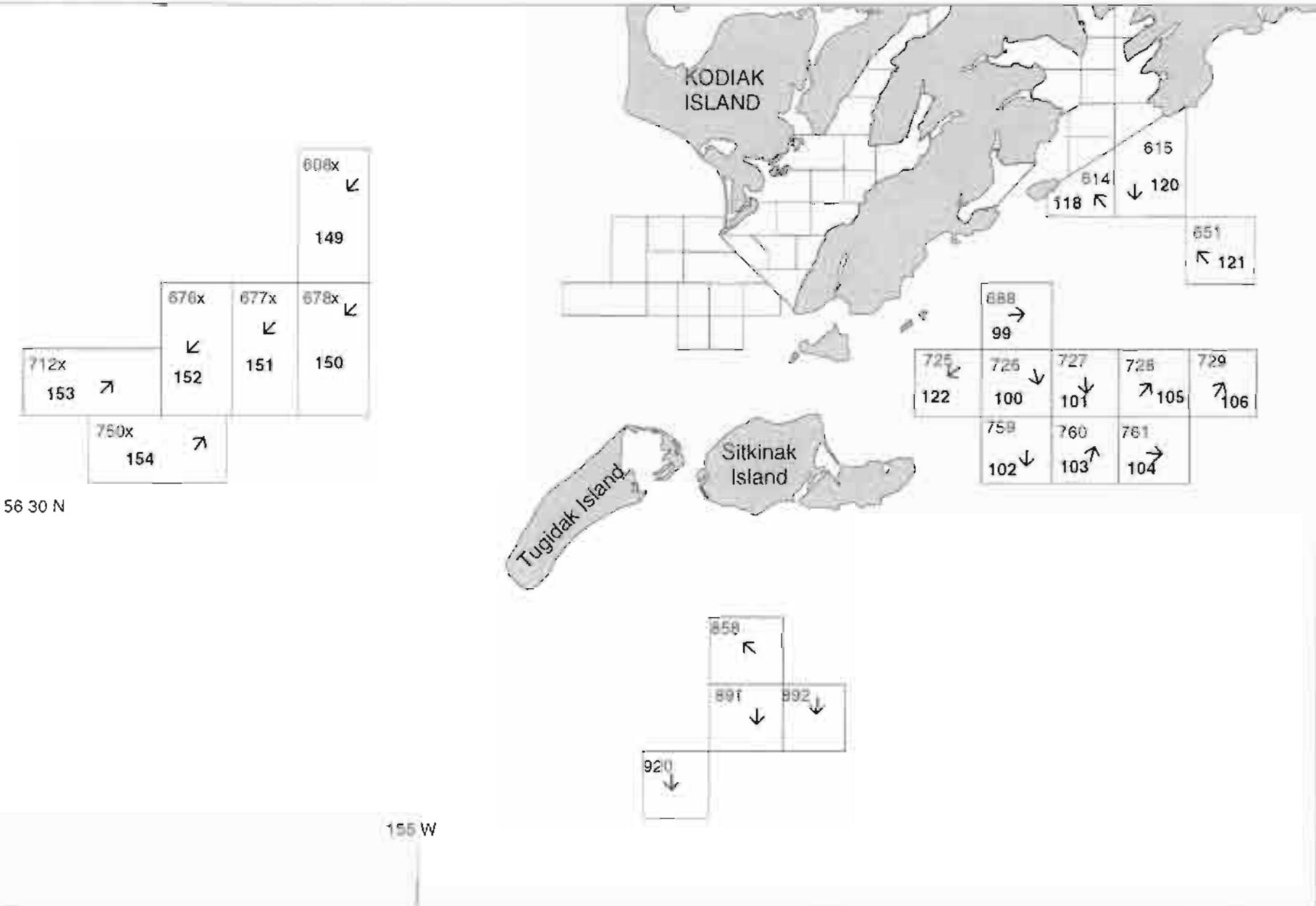


Appendix D.3 Station boundaries and names, trawl haul numbers (bold) and locations (arrows), Ugak Bay, Kiliuda Bay and Barnabas Gully, June and July 1996.

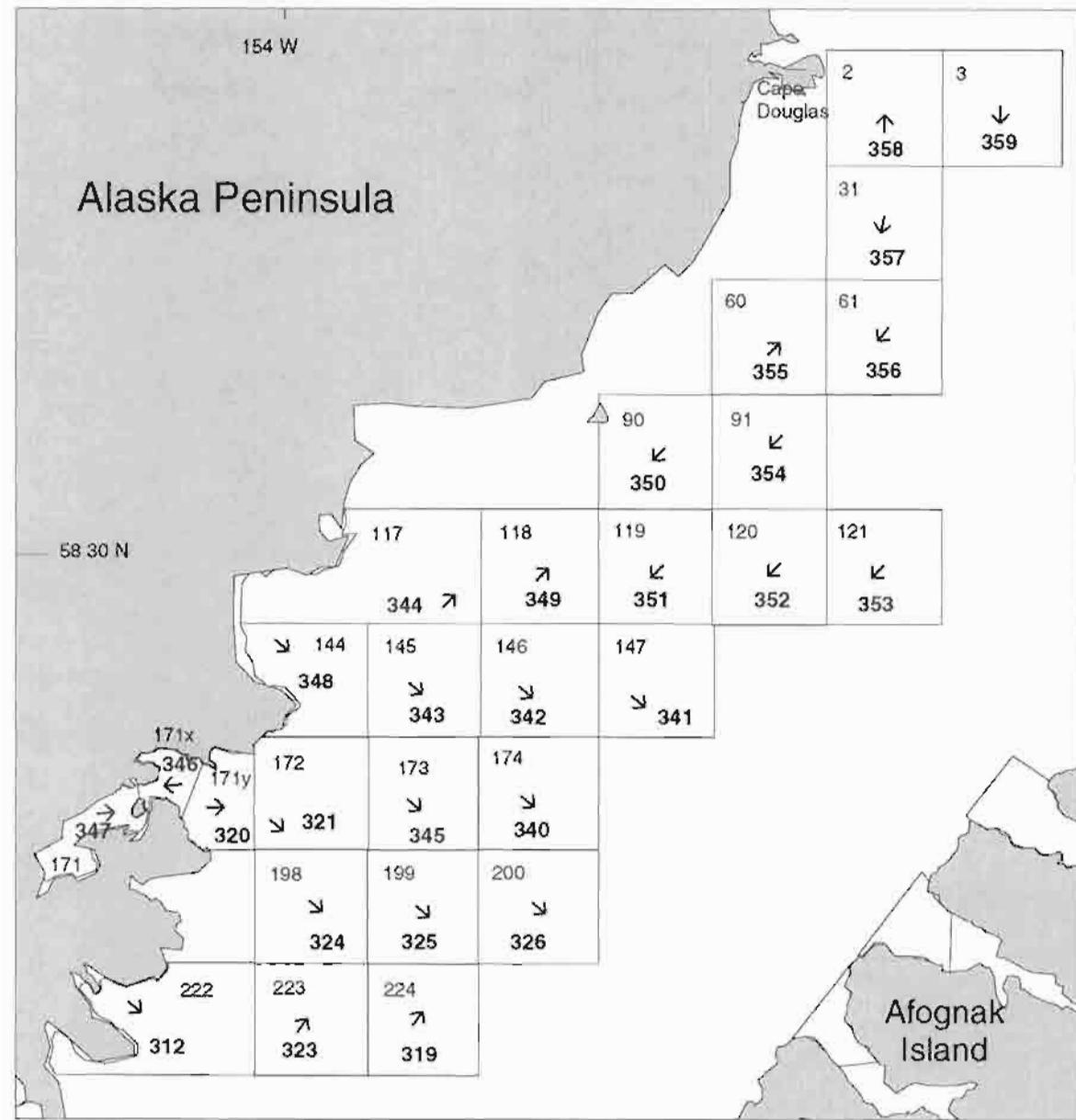


Appendix D.4. Station boundaries and names, trawl haul numbers (bold) and locations (arrows), South Sitkalidak Strait, Two Headed Island, and Horse's Head Area, Kodiak Island, June and July 1996.

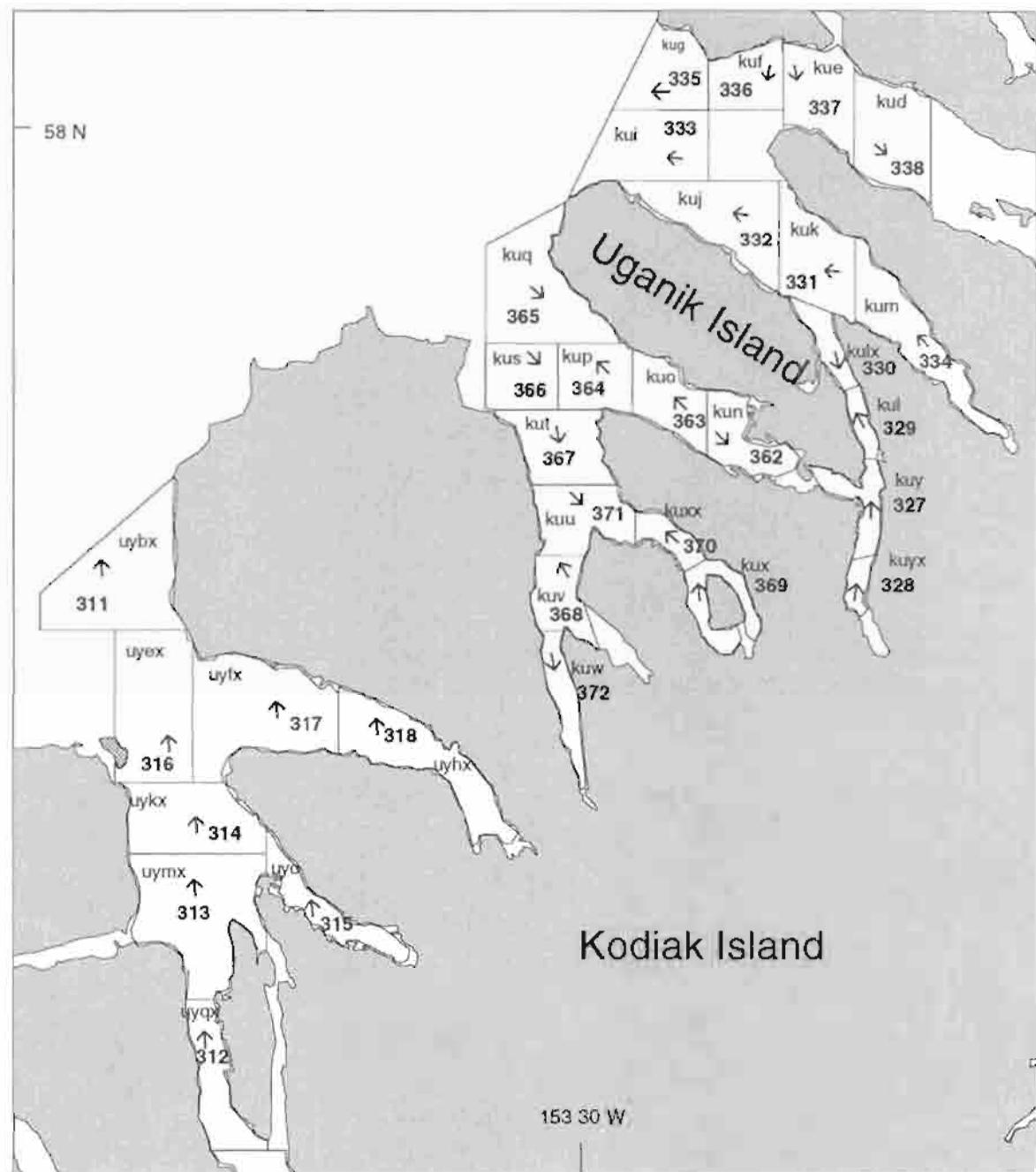




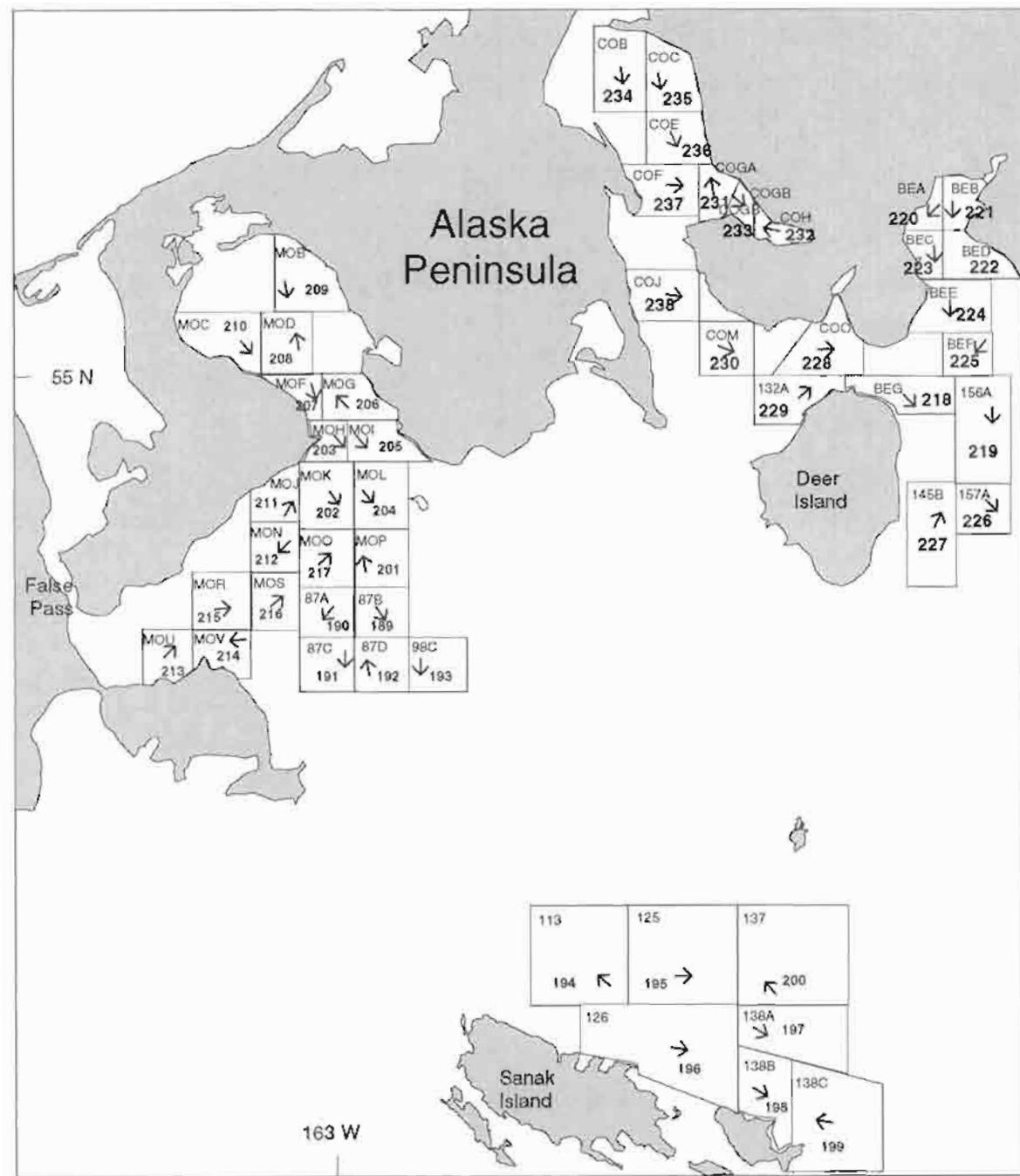
Appendix D.6 Station boundaries and names, trawl haul numbers (**bold**) and locations (arrows), South Kodiak Island offshore, July 1996.



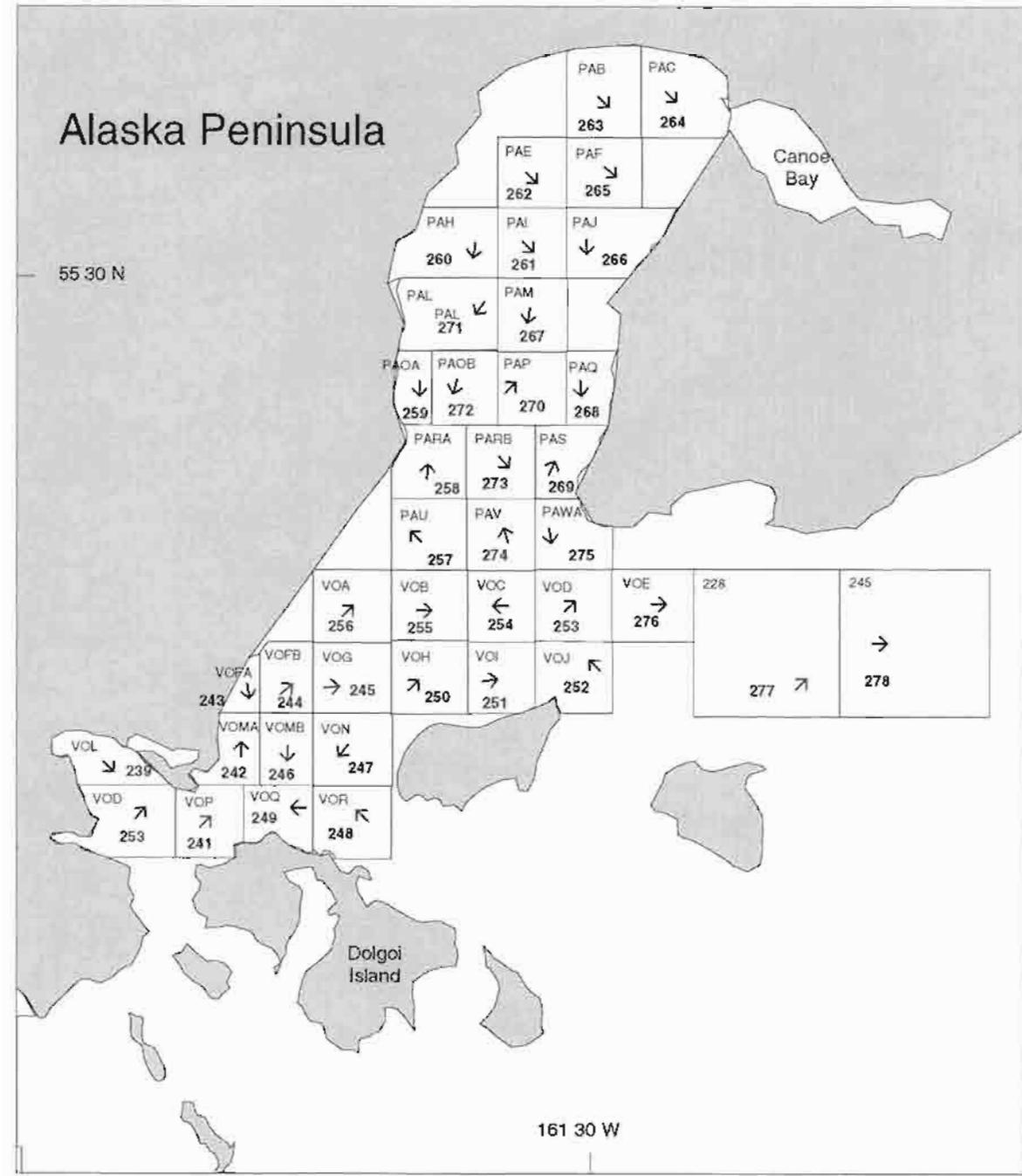
Appendix D.7 Station boundaries and names, trawl haul numbers (bold) and locations (arrows), Shelikof Strait, September 1996.



Appendix D.8 Station boundaries and names, trawl haul numbers (bold) and locations (arrows), Uyak Bay, Uganik Bay and Viekoda Bay, August and September 1996.

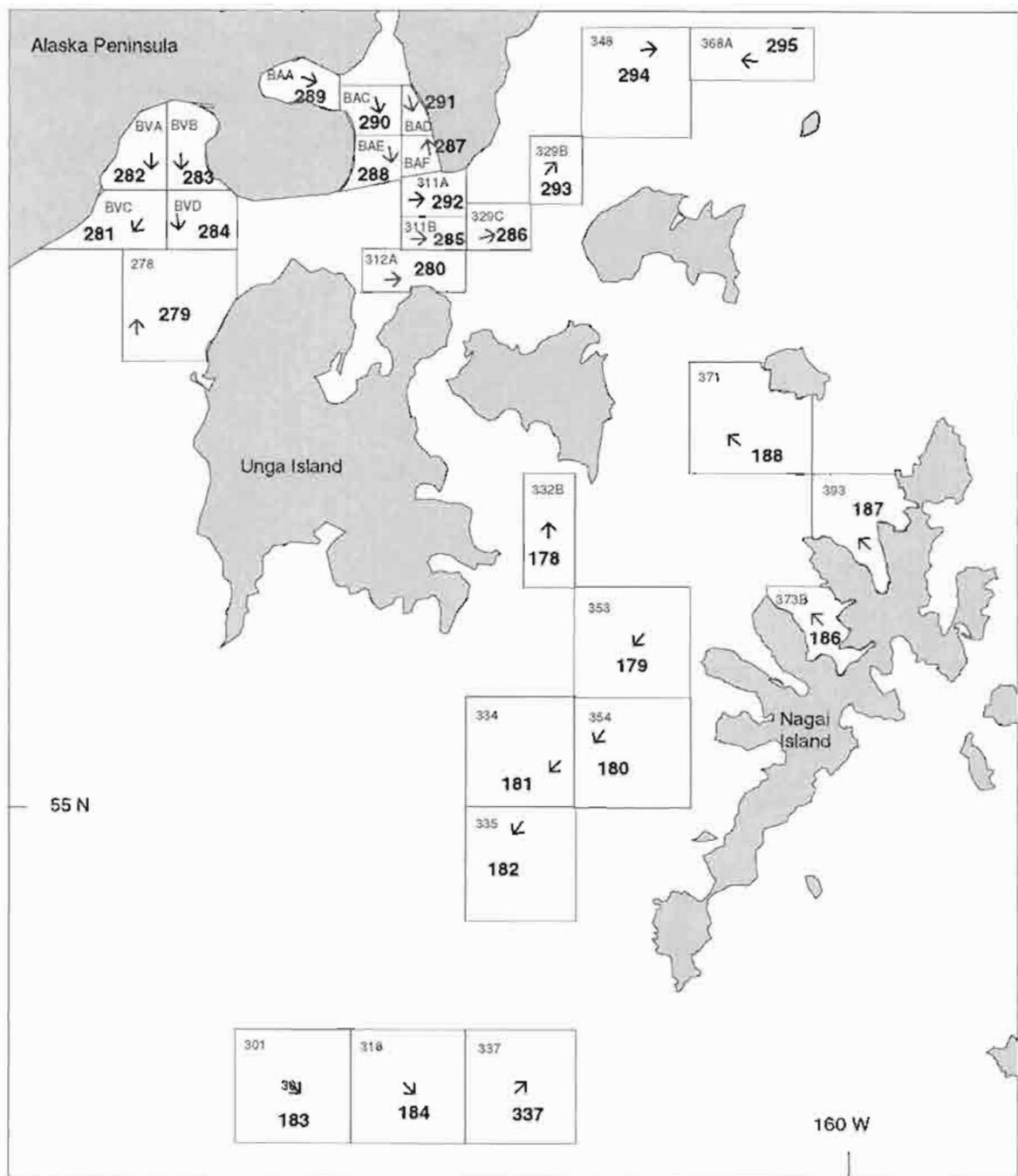


Appendix D.9 Station boundaries and names, trawl haul numbers (**bold**) and locations (arrows), Morzhovoi Bay, Cold Bay, Deer Island, and Sanak Island, August 1996.

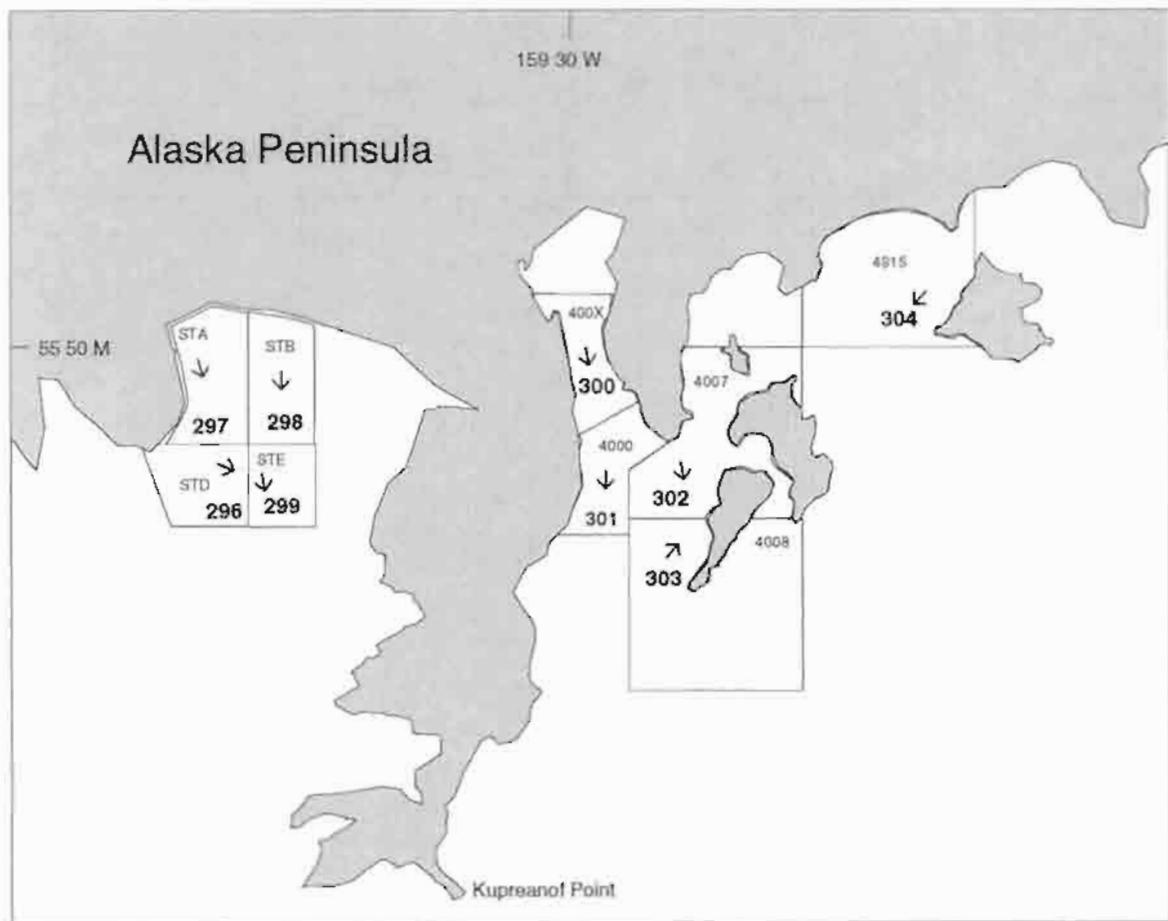


Appendix D.10

Station Boundaries and names, trawl haul numbers (bold) and locations (arrows), Pavlof Bay and Volcano Bay, August 1996.

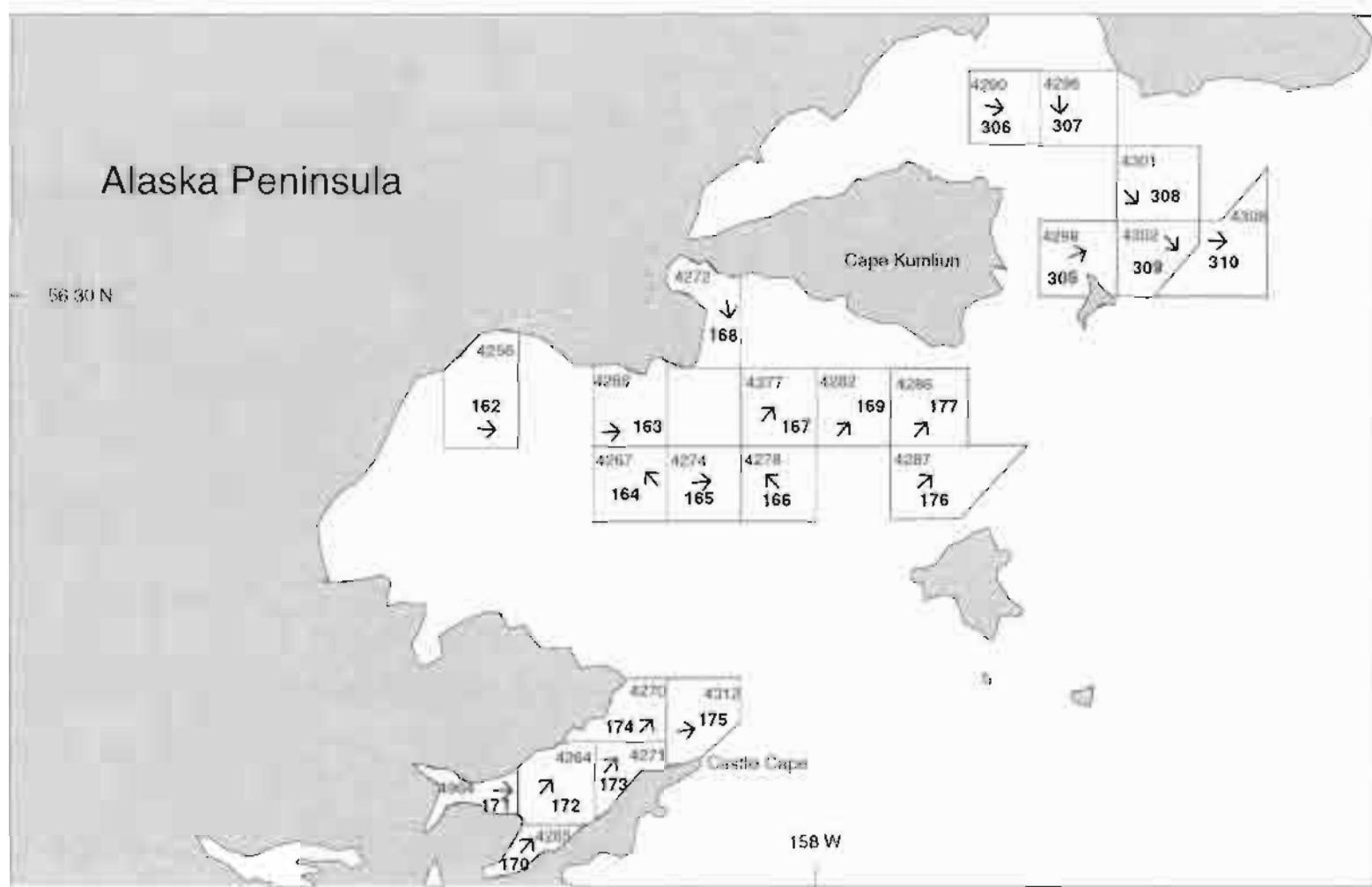


Appendix D.11 Station boundaries and names, trawl haul numbers (**bold**) and locations (arrows), Unga Strait, Beaver Bay, Balboa Bay, and West Nagai, August 1996.



Appendix D.12

Station boundaries and names, trawl haul numbers (bold) and locations (arrows), Stepovak Bay, Ivanof Bay and Perryville area, August 1996.



Appendix D.13 Station boundaries and names, trawl haul numbers (bold) and locations (arrows), Kujulik Bay, Chignik Bay, and Castle Bay, July and August, 1996.

Appendix E. Numbers of Tanner crab per 1.85 km (1 nautical mile) in the Kodiak Management District with population index by section.

Station	Tow #	Females			Sublegal Males			Recruit	Postrecruit		Total Legal	Total Male	Total Crab
		Juv	Adult	Total	<70	70-91	92-114		<165	>164			
NORTHEAST SECTION													
CHA	1	5	0	5	13	1	0	0	0	0	0	14	19
CHA	2	3	0	3	10	0	0	0	0	0	0	10	13
CHA	3	12	0	12	8	0	0	0	0	0	0	8	20
CHB	4	26	0	26	28	0	0	0	0	0	0	28	54
CHB	5	9	6	15	10	7	2	2	0	0	0	21	36
CHJ	6	1	0	1	0	0	0	0	0	0	0	0	1
CHJ	7	6	1	7	6	0	0	0	0	0	0	6	13
CHB	8	29	9	38	14	26	7	1	0	0	0	48	86
CHF	9	259	49	308	92	214	136	30	8	0	0	480	788
CHK	10	460	313	773	71	196	249	253	71	36	4	111	880
283	11	40	4	44	46	0	1	1	0	0	0	0	48
284	12	5	0	5	4	0	0	0	0	0	0	0	9
257	13	0	0	0	2	0	0	0	0	0	0	0	2
256	14	3	0	3	1	0	0	0	0	0	0	0	1
255	15	7	1	8	8	0	0	1	0	0	0	0	9
MOLX	16	100	516	616	57	378	123	60	0	9	0	9	627
MOXX	17	17	6	23	26	24	10	1	0	0	0	0	61
MOPX	18	48	18	66	54	18	7	0	0	0	0	0	79
MOGX	19	33	17	50	29	28	24	9	2	0	0	2	92
MOEX	20	17	0	17	28	2	1	1	0	0	0	0	49
MONX	21	13	58	71	14	54	29	8	0	0	0	0	105
KZO	22	57	18	75	53	77	42	4	0	0	0	0	176
KZR	23	35	99	134	12	79	56	35	1	8	0	9	191
KZS	24	260	68	328	183	111	26	10	0	0	0	0	330
KZK	25	62	46	108	53	109	89	5	0	1	0	1	257
KZJ	26	2	0	2	6	4	0	0	0	0	0	0	12
KZG	27	37	3	40	39	42	35	1	0	0	0	0	117
KZF	28	1	0	1	2	10	41	2	0	0	0	0	56
KZE	29	1	0	1	4	0	2	0	0	0	0	0	7
KZC	30	3	0	3	1	1	0	0	0	0	0	0	2
KZO	31	169	36	204	151	216	44	13	0	4	0	4	429
KZA	32	32	5	37	29	16	4	1	0	0	0	0	50
KZB	33	48	7	55	43	37	27	3	5	0	0	5	115
369X	34	3	2	5	0	1	3	0	0	0	0	0	4
395	35	0	0	0	0	0	0	0	0	0	0	0	0
CHG	36	31	0	31	32	2	0	0	0	0	0	0	34
CHL	37	55	22	77	36	57	11	0	0	0	0	0	104
CHK	38	196	138	334	68	200	304	140	24	32	4	60	772
CHE	39	1	4	5	0	1	2	1	0	0	0	0	5
CHE	40	18	0	18	19	0	0	0	0	0	0	0	19
420	41	4	0	4	0	0	0	0	0	0	0	0	4
421	42	0	0	0	0	0	0	0	0	0	0	0	0

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Appendix E. (Page 2 of 6)

Station	Tow #	Females			Sublegal Males				Recruit	Postrecruit		Total Legal	Total Male	Total Crab
		Juv	Adult	Total	<70	70-91	92-114	>114		<165	>164			
444	43	3	0	3	1	0	0	0	0	0	0	0	1	4
443	44	44	2	46	32	0	0	0	0	0	0	0	32	78
442	45	2	1	3	2	0	1	0	0	0	0	0	3	6
Population Estimate		2,132,659	2,508,696	4,641,355	1,766,596	2,544,865	1,190,131	427,287	30,485	54,026	1,603	86,114	6,014,993	10,656,348
Eastside Section														
UGF	46	65	0	65	56	0	0	0	0	0	0	0	56	121
UGG	47	2	0	2	0	0	0	0	0	0	0	0	0	2
UGJ	48	0	0	0	0	0	0	0	0	0	0	0	0	0
486B	49	0	0	0	1	0	0	0	0	0	0	0	1	1
511B	50	0	0	0	0	0	0	0	0	0	0	0	0	0
535B	51	16	0	16	14	0	1	0	0	0	0	0	15	31
535D	52	2	0	2	2	0	0	1	0	0	0	0	3	5
535A	53	0	0	0	0	0	1	0	0	0	0	0	1	1
535C	54	4	0	4	8	1	0	0	0	0	0	0	9	13
560	55	3	1	4	0	1	0	0	0	0	0	0	1	5
561	56	1	0	1	0	6	4	1	0	1	0	1	12	13
569	57	0	1	1	2	0	3	2	0	0	0	0	7	8
621	58	0	0	0	0	0	0	1	0	0	0	0	1	1
656	59	0	1	1	0	0	0	0	0	0	0	0	0	1
696	60	153	63	216	192	75	34	21	0	3	0	3	325	541
695	61	13	38	51	10	25	65	15	0	0	0	0	115	166
655	62	12	31	43	10	9	5	22	1	13	0	14	60	103
620	63	16	22	38	14	8	9	17	1	8	1	10	58	96
559	64	34	10	44	26	2	0	1	0	0	0	0	29	73
588	65	33	18	51	31	13	4	15	0	2	0	2	65	116
587	66	8	12	20	10	8	3	7	0	3	0	3	31	51
619	67	0	8	8	2	1	2	6	0	2	0	2	13	21
654	68	3	1	4	3	1	1	1	0	1	0	1	9	13
533A	72	3	0	3	4	0	1	2	0	0	0	0	7	10
533B	73	0	0	0	0	1	0	0	0	0	0	0	1	1
534D	74	0	0	0	0	2	0	1	0	0	0	0	3	3
534B	75	1	0	1	0	0	0	0	0	0	0	0	0	1
510C	76	0	0	0	0	0	0	0	0	0	0	0	0	0
511A	77	0	0	0	1	0	0	0	0	0	0	0	1	1
510B	78	21	0	21	22	0	0	0	0	0	0	0	22	43
486A	79	28	0	28	11	0	0	0	0	0	0	0	11	39
UGM	80	23	78	101	7	1	13	88	15	49	9	73	182	283
UGAC	81	8	8	16	13	1	31	52	28	0	0	28	126	141
UGAB	82	104	0	104	102	34	8	96	16	0	0	16	256	360
UGAA	83	11	18	29	3	6	51	354	96	0	3	99	513	542
UGB	84	19	0	19	11	0	2	9	1	0	0	1	23	42
UGC	85	39	0	39	36	1	0	1	0	4	0	4	42	81
UGD	86	304	6	310	244	80	26	14	0	0	0	0	364	674

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Appendix E. (Page 3 of 6)

Station	Tow #	Females			Sublegal Males				Recruit	Postrecruit		Total Legal	Total Male	Total Crab
		Juv	Adult	Total	<70	70-91	92-114	>114		<165	>164			
UGE	87	138	18	156	116	54	42	100	14	2	0	16	328	484
UGI	88	146	28	174	145	2	0	6	0	3	1	4	157	331
KLD	89	4	1	6	6	0	0	0	0	0	0	0	6	11
KLL	90	0	0	0	0	0	0	0	0	0	0	0	0	0
KLA	91	79	0	79	136	3	0	2	2	0	1	3	144	223
KLB	92	161	0	161	196	2	1	0	0	0	0	0	199	360
KLC	93	61	4	65	48	5	0	1	4	1	0	5	59	124
KLI	94	196	1	197	238	2	0	0	0	0	0	0	240	437
KLH	95	9	0	9	11	0	0	1	0	0	0	0	12	21
KLG	96	34	18	52	14	37	27	5	0	11	0	11	94	146
KLF	97	21	2	23	13	15	3	7	0	0	0	0	38	61
KLE	98	14	0	14	19	2	0	0	0	0	0	0	21	35
Population Estimate		2,099,145	916,539	3,015,684	2,187,039	705,077	609,875	849,485	107,556	179,487	14,538	301,582	4,653,058	7,668,742
Southeast Section														
618A	69	4	3	7	4	1	4	2	0	1	0	1	12	19
586	70	9	0	9	4	5	1	1	0	0	0	0	11	20
585X	71	22	0	22	5	3	2	0	0	0	0	0	10	32
688	99	8	0	8	9	0	0	0	0	0	0	0	9	17
726	100	29	5	34	17	16	0	0	0	1	0	1	34	68
727	101	182	5	187	187	7	0	1	0	0	0	0	195	382
759	102	19	1	20	40	3	0	0	0	0	0	0	43	63
760	103	21	4	25	27	1	0	2	0	0	0	0	30	55
761	104	37	0	37	21	0	0	0	0	0	0	0	21	59
728	105	81	0	81	84	2	0	0	0	0	0	0	66	147
729	106	31	0	31	35	0	0	0	0	0	1	1	36	67
THJ	107	32	2	34	25	12	5	8	0	4	0	4	54	88
THH	108	17	0	17	18	1	0	0	0	0	0	0	19	36
THK	109	75	1	76	91	5	4	22	64	1	4	69	191	267
THL	110	22	5	27	11	9	3	14	3	6	1	10	47	74
THM	111	27	1	28	3	10	8	17	7	9	0	16	54	82
THN	112	49	11	60	17	27	9	20	6	20	0	26	99	159
THI	113	62	2	64	47	38	10	2	0	0	0	0	97	181
THF	114	22	8	30	24	43	28	10	0	1	0	1	107	137
THG	115	45	6	51	21	6	2	2	0	4	0	4	35	86
THD	116	11	21	32	13	7	0	2	1	14	0	15	37	69
THC	117	20	15	35	20	2	1	3	2	14	1	17	43	78
614	118	36	1	37	16	2	0	1	0	0	0	0	19	56
THA	119	346	4	350	210	295	60	25	0	0	0	0	590	940
615	120	19	0	19	17	0	0	6	0	2	0	2	25	44
651	121	47	3	50	53	3	0	0	0	1	0	1	57	107
725	122	0	0	0	0	0	0	0	0	0	0	0	0	0
892	123	0	0	0	2	0	0	0	0	0	0	0	2	2
891	124	1	0	1	1	0	0	0	0	0	0	0	1	2
920	125	0	0	0	1	1	0	0	0	0	0	0	2	2

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Appendix E. (Page 4 of 6)

Station	Tow #	Females			Sublegal Males				Recruit	Postrecruit		Total Legal	Total Male	Total Crab
		Juv	Adult	Total	<70	70-91	92-114	>114		<165	>164			
858	126	1	0	1	0	0	0	0	0	0	0	0	0	1
Population Estimate		2,567,943	141,849	2,709,792	2,274,742	486,210	112,033	124,446	55,489	68,179	7,990	131,658	3,129,089	5,838,881
Southwest Section														
646D	127	0	0	0	5	0	0	0	0	0	0	0	5	5
646B	128	10	0	10	10	0	0	0	0	0	0	0	10	20
646A	129	1	0	1	3	0	0	1	0	1	0	0	1	5
645B	130	4	0	4	8	0	0	0	0	0	0	0	8	12
646C	131	0	0	0	2	0	0	0	0	1	0	1	3	3
682B	132	10	0	10	8	0	1	1	0	1	0	1	11	21
683A	133	0	0	0	2	0	0	0	0	0	0	0	2	2
684A	134	3	0	3	0	0	0	1	0	0	0	0	1	4
683B	135	2	0	2	3	0	0	0	0	1	0	1	4	6
683D	136	0	0	0	2	0	0	0	0	0	0	0	2	2
ALC	137	53	26	79	28	3	4	48	1	69	2	72	155	234
ALD	138	10	1	11	8	1	1	1	0	1	0	1	12	23
ALF	139	9	6	15	4	0	1	12	4	0	0	4	21	36
ALI	140	18	12	30	36	52	99	126	18	29	0	47	360	390
ALR	141	47	7	54	31	8	7	25	6	6	0	12	83	137
ALQ	142	46	2	48	39	16	20	20	4	0	0	4	99	147
ALP	143	28	0	28	31	13	17	7	3	0	1	4	72	100
ALO	144	10	0	10	11	13	4	11	0	0	0	0	40	50
ALL	145	9	1	10	14	21	57	35	4	3	0	7	134	144
ALH	146	2	4	6	13	9	28	63	10	7	0	17	128	134
ALB	147	1	0	1	0	0	0	0	0	0	0	0	0	1
ALA	148	472	75	547	480	10	21	52	2	30	0	32	595	1142
608X	149	0	0	0	0	0	0	0	0	1	0	1	1	1
678X	150	2	0	2	2	0	0	0	0	0	0	0	2	5
677X	151	1	0	1	2	0	0	0	0	0	0	0	2	3
676X	152	0	0	0	2	0	0	0	0	0	0	0	2	2
712X	153	10	0	10	2	1	1	0	0	0	0	0	4	14
750X	154	0	0	0	0	0	0	0	0	0	0	0	0	0
684C	156	0	0	0	0	0	0	1	0	0	0	0	1	1
684B	157	6	2	8	6	0	0	0	0	0	0	0	6	14
ALJ	158	4	0	4	3	0	2	10	1	0	0	1	16	20
ALG	159	3	0	3	0	0	0	1	0	0	0	0	1	4
ALK	160	3	1	4	2	0	0	0	1	0	0	1	3	7
ALM	161	1	0	1	3	0	0	0	0	0	0	0	3	4
Population Estimate		348,245	44,722	392,968	326,522	98,585	162,621	240,133	36,057	74,458	1,571	112,085	939,945	1,332,913
Westside Section														
UYBX	311	4	0	4	1	0	0	0	0	0	0	0	1	5
UYQX	312	1	0	1	0	0	0	0	0	0	0	0	0	1

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Appendix E. (Page 5 of 6)

Station	Tow #	Females			Sublegal Males				Recruit	Postrecruit		Total Legal	Total Male	Total Crab
		Juv	Adult	Total	<70	70-91	92-114	>114		<165	>164			
UYMX	313	3	7	10	0	0	2	3	0	1	0	1	6	16
UYKX	314	4	0	4	2	0	0	0	0	0	0	0	2	7
UYO	315	3	1	4	2	2	18	5	0	0	0	0	27	31
UYEX	316	23	27	50	8	1	2	0	0	0	0	0	11	61
UYFX	317	20	94	114	6	117	115	46	0	10	0	10	295	409
UYHX	318	7	4	11	2	1	0	1	0	0	0	0	4	15
KUY	327	0	0	0	2	0	0	0	0	0	0	0	2	2
KUYX	328	0	0	0	0	0	0	0	0	0	0	0	0	0
KUL	329	7	41	48	5	6	10	20	3	3	0	6	47	95
KULX	330	20	8	28	2	108	32	56	30	20	2	52	250	278
KUK	331	32	58	90	7	32	20	8	5	5	0	10	77	167
KUJ	332	12	100	112	3	40	49	48	11	31	0	42	182	294
KUI	333	28	119	147	7	10	26	39	8	28	1	37	119	266
KUM	334	0	2	2	3	0	1	0	0	1	0	1	6	8
KUG	335	0	0	0	0	0	0	0	0	0	0	0	0	0
KUF	336	4	0	4	2	2	8	12	0	0	0	0	24	28
KUE	337	0	0	0	3	1	0	0	0	0	0	0	4	4
KUD	338	0	0	0	0	0	0	0	0	0	0	0	0	0
RAA	339	0	0	0	0	1	2	6	3	2	0	5	14	14
PAA	360	9	34	43	1	10	23	76	13	51	0	64	174	217
MAA	361	13	10	23	15	10	26	20	4	9	0	13	84	107
KUN	362	3	17	20	0	5	3	7	2	0	0	2	17	37
KUO	363	14	13	27	10	7	11	9	0	1	0	1	38	65
KUP	364	1	26	27	1	2	14	16	1	5	0	6	39	86
KUQ	365	67	18	85	40	24	9	1	0	1	0	1	75	180
KUS	366	0	24	24	0	2	12	22	0	11	0	11	48	72
KUT	367	10	42	52	4	19	17	6	1	3	0	4	50	102
KUV	368	2	0	2	6	0	1	0	0	0	0	0	7	10
KUX	369	34	68	102	3	33	56	11	4	1	0	5	108	210
KUXX	370	14	23	37	0	37	74	43	19	4	0	23	177	214
KUU	371	43	10	53	32	33	21	7	0	0	0	0	93	146
KUW	372	0	0	0	1	0	21	19	9	0	0	9	50	50
Population Estimate		221,986	406,957	628,943	104,838	263,794	293,384	226,226	36,717	99,630	469	136,816	1,025,058	1,654,001
North Mainland Section														
224	319	164	8	172	143	17	5	5	0	2	0	2	172	344
171Y	320	2	13	16	0	0	0	1	0	0	0	0	1	17
172	321	0	0	0	0	0	0	2	0	1	0	1	3	3
222	322	0	0	0	1	0	0	0	0	0	0	0	1	1
223	323	194	1	195	157	9	5	5	0	4	0	4	180	375
198	324	91	15	106	79	11	1	5	0	1	0	1	97	203
199	325	116	1	117	114	9	6	10	0	6	0	6	145	262
200	326	73	1	74	92	18	4	4	0	2	0	2	120	194
174	340	66	31	97	59	10	6	6	0	1	0	1	82	179
147	341	53	8	61	54	1	3	6	0	3	0	3	67	128

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Appendix E. (Page 6 of 6)

Station	Tow #	Females			Sublegal Males				Recruit	Postrecruit		Total Legal	Total Male	Total Crab
		Juv	Adult	Total	<70	70-91	92-114	>114		<165	>164			
146	342	46	11	57	43	4	3	0	0	0	0	0	50	107
145	343	2	0	2	2	0	0	0	0	0	0	0	2	4
117	344	4	1	5	11	0	0	0	0	0	0	0	11	16
173	345	120	14	134	126	4	2	5	0	2	0	2	139	273
171X	346	7	0	7	8	6	6	34	92	2	24	118	172	179
171	347	36	0	36	32	0	2	2	3	0	3	7	43	79
144	348	0	0	0	0	0	0	1	0	0	0	0	1	1
118	349	7	0	7	13	0	0	1	0	0	0	0	14	21
90	350	6	1	7	12	0	0	0	0	0	0	0	12	19
119	351	16	0	16	14	0	8	19	0	13	2	15	56	72
120	352	87	3	90	86	5	7	10	0	5	1	6	114	204
121	353	26	1	27	28	1	6	5	0	3	0	3	43	70
91	354	1	0	1	1	0	0	1	0	0	0	0	2	3
60	355	0	0	0	1	0	0	0	0	0	0	0	1	1
61	356	20	1	21	14	0	0	1	0	0	0	0	15	36
31	357	3	1	4	6	0	0	0	0	0	0	0	6	10
2	358	6	0	6	2	0	0	0	0	0	0	0	2	8
3	359	62	0	62	64	0	0	0	0	0	0	0	64	126
Population Estimate		4,440,244	390,477	4,830,721	4,282,612	340,128	215,935	341,473	34,667	164,161	21,682	220,510	5,400,659	10,231,380
93	Total	11,810,222	4,409,239	16,219,462	10,942,349	4,438,659	2,583,980	2,209,049	300,970	639,942	47,854	988,766	21,162,803	37,382,264

Appendix F. Numbers of king crab per 1.85 km (1 nautical mile) in 1996 in the Kodiak Management Area with population index by district.

STN	Tow #	Females			Sublegal Males				Recruit	Post recruit	Total Legal	Total Male	Total Crab
		Juv.	Adult	Total	Four	Three	Two	One					
NORTHEAST													
CHA	1	1	22	23	1	0	0	1	0	0	0	2	25
CHA	2	1	0	1	1	0	0	0	0	0	0	1	2
CHA	3	0	0	0	0	0	0	0	0	0	0	0	0
CHB	4	0	23	23	1	1	2	1	2	0	2	7	30
CHB	5	0	2	2	0	0	0	0	0	0	0	0	2
CHJ	6	0	0	0	0	0	0	0	0	0	0	0	0
CHJ	7	0	0	0	0	0	0	0	0	0	0	0	0
CHB	8	0	0	0	0	0	0	0	0	0	0	0	0
CHF	9	0	0	0	0	0	0	0	0	0	0	0	0
CHK	10	0	0	0	0	0	0	0	0	1	1	1	1
283	11	0	0	0	0	0	0	0	0	0	0	0	0
284	12	0	0	0	0	0	0	0	0	0	0	0	0
257	13	0	0	0	0	0	0	0	0	0	0	0	0
256	14	0	0	0	0	0	0	0	0	0	0	0	0
255	15	0	0	0	0	0	0	0	0	0	0	0	0
MOLX	16	0	0	0	0	0	0	0	0	0	0	0	0
MOXX	17	0	0	0	0	0	0	0	0	0	0	0	0
MOPX	18	0	0	0	0	0	0	0	0	0	0	0	0
MOGX	19	0	0	0	0	0	0	0	0	0	0	0	0
MOEX	20	0	0	0	0	0	0	0	0	0	0	0	0
MONX	21	0	0	0	0	0	0	0	0	0	0	0	0
KZO	22	0	0	0	0	0	0	0	0	0	0	0	0
KZR	23	0	0	0	0	0	0	0	0	0	0	0	0
KZS	24	0	0	0	0	0	0	0	0	0	0	0	0
KZK	25	0	0	0	0	0	0	0	0	0	0	0	0
KZJ	26	0	0	0	0	0	0	0	0	0	0	0	0
KZG	27	0	0	0	0	0	0	0	0	0	0	0	0
KZF	28	0	0	0	0	0	0	0	0	0	0	0	0
KZE	29	0	0	0	0	0	0	0	0	0	0	0	0
KZC	30	0	0	0	0	0	0	0	0	0	0	0	0

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Appendix F. (Page 2 of 7.)

STN	Tow #	Females			Sublegal Males				Recruit	Post recruit	Total Legal	Total Male	Total Crab
		Juv.	Adult	Total	Four	Three	Two	One					
KZD	31	0	0	0	0	0	0	0	0	0	0	0	0
KZA	32	0	0	0	0	0	0	0	0	0	0	0	0
KZB	33	2	3	5	2	0	0	0	0	0	0	2	7
369X	34	0	0	0	0	0	0	0	0	0	0	0	0
395	35	0	0	0	0	0	0	0	0	0	0	0	0
CHG	36	0	0	0	0	0	0	0	0	0	0	0	0
CHL	37	0	0	0	0	0	0	0	0	0	0	0	0
CHK	38	0	0	0	0	0	0	0	0	1	1	1	1
CHE	39	0	0	0	0	0	0	0	0	0	0	0	0
CHE	40	0	0	0	0	0	0	0	0	0	0	0	0
420	41	0	0	0	0	0	0	0	0	0	0	0	0
421	42	0	0	0	0	0	0	0	0	0	0	0	0
444	43	0	0	0	0	0	0	0	0	0	0	0	0
443	44	0	0	0	0	0	0	0	0	0	0	0	0
442	45	0	0	0	0	0	0	0	0	0	0	0	0
UGF	46	0	0	0	0	0	0	0	0	0	0	0	0
UGG	47	0	0	0	0	0	0	0	0	0	0	0	0
UGJ	48	0	0	0	0	0	0	0	0	0	0	0	0
486B	49	0	0	0	0	0	0	0	0	0	0	0	0
511B	50	0	0	0	0	0	0	0	0	0	0	0	0
535B	51	0	0	0	0	0	0	0	0	0	0	0	0
535D	52	0	0	0	0	0	0	0	0	0	0	0	0
535A	53	0	0	0	0	0	0	0	0	0	0	0	0
535C	54	0	0	0	0	0	0	0	0	0	0	0	0
560	55	0	0	0	0	0	0	0	0	0	0	0	0
561	56	0	0	0	0	0	0	0	0	0	0	0	0
589	57	0	0	0	0	0	0	0	0	0	0	0	0
621	58	0	0	0	0	0	0	0	0	0	0	0	0
656	59	0	0	0	0	0	0	0	0	0	0	0	0
696	60	0	0	0	0	0	0	0	0	0	0	0	0
695	61	0	0	0	0	0	0	0	0	0	0	0	0
655	62	0	0	0	0	0	0	0	0	0	0	0	0
620	63	0	0	0	0	0	0	0	0	0	0	0	0
559	64	0	0	0	0	0	0	0	0	0	0	0	0
588	65	0	0	0	0	0	0	0	0	0	0	0	0

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STN	Tow #	Females			Sublegal Males				Recruit	Post recruit	Total Legal	Total Male	Total Crab
		Juv.	Adult	Total	Four	Three	Two	One					
587	66	0	0	0	0	0	0	0	0	0	0	0	0
619	67	0	0	0	0	0	0	0	0	0	0	0	0
654	68	0	0	0	0	0	0	0	0	0	0	0	0
533A	72	0	0	0	0	0	0	0	0	0	0	0	0
533B	73	0	0	0	0	0	0	0	0	0	0	0	0
534D	74	0	0	0	0	0	0	0	0	0	0	0	0
534B	75	0	0	0	0	0	0	0	0	0	0	0	0
510C	76	0	0	0	0	0	0	0	0	0	0	0	0
511A	77	0	0	0	0	0	0	0	0	0	0	0	0
510B	78	0	0	0	0	0	0	0	0	0	0	0	0
486A	79	0	0	0	0	0	0	0	0	0	0	0	0
UGM	80	0	0	0	0	0	0	0	0	0	0	0	0
UGAC	81	0	0	0	0	0	0	0	0	0	0	0	0
UGAB	82	0	0	0	0	0	0	0	0	6	6	6	6
UGAA	83	0	0	0	0	0	0	0	0	0	0	0	0
UGB	84	0	0	0	0	0	0	0	0	0	0	0	0
UGC	85	0	0	0	0	0	0	0	0	2	2	2	2
UGD	86	0	0	0	0	0	0	0	0	0	0	0	0
UGE	87	0	0	0	0	0	0	0	0	0	0	0	0
UGI	88	0	0	0	0	0	0	0	0	0	0	0	0
KLD	89	0	0	0	0	0	0	0	0	0	0	0	0
KLL	90	0	0	0	0	0	0	0	0	0	0	0	0
KLA	91	0	0	0	0	0	0	0	0	0	0	0	0
KLB	92	0	0	0	0	0	0	0	0	0	0	0	0
KLC	93	0	0	0	0	0	0	0	0	0	0	0	0
KLI	94	0	0	0	0	0	0	0	0	0	0	0	0
KLH	95	0	0	0	0	0	0	0	0	0	0	0	0
KLG	96	0	0	0	0	0	0	0	0	0	0	0	0
KLF	97	0	0	0	0	0	0	0	0	0	0	0	0
KLE	98	0	0	0	0	0	0	0	0	0	0	0	0
Population estimate		365	5,099	5,463	481	116	233	197	233	3,199	3,432	4,460	9,923
SOUTHEAST													
618A	69	0	0	0	0	0	0	0	0	0	0	0	0

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Appendix F. (Page 4 of 7.)

STN	Tow #	Females			Sublegal Males				Recruit	Post recruit	Total Legal	Total Male	Total Crab
		Juv.	Adult	Total	Four	Three	Two	One					
586	70	0	0	0	0	0	0	0	0	0	0	0	0
585X	71	0	0	0	0	0	0	0	0	0	0	0	0
688	99	0	0	0	0	0	0	0	0	0	0	0	0
726	100	0	0	0	0	0	0	0	0	0	0	0	0
727	101	0	0	0	0	0	0	0	0	0	0	0	0
759	102	0	0	0	0	0	0	0	0	0	0	0	0
760	103	0	0	0	0	0	0	0	0	0	0	0	0
761	104	0	0	0	0	0	0	0	0	0	0	0	0
728	105	0	0	0	0	0	0	0	0	0	0	0	0
729	106	0	0	0	0	0	0	0	0	0	0	0	0
THJ	107	0	0	0	0	0	0	0	0	0	0	0	0
THH	108	0	0	0	0	0	0	0	0	0	0	0	0
THK	109	0	0	0	0	0	0	0	0	0	0	0	0
THL	110	0	0	0	0	0	0	0	0	0	0	0	0
THM	111	0	0	0	0	0	0	0	0	0	0	0	0
THN	112	0	0	0	0	0	0	0	0	0	0	0	0
THI	113	0	1	1	0	0	0	0	0	0	0	0	1
THF	114	0	0	0	0	0	0	0	0	0	0	0	0
THG	115	0	0	0	0	0	0	0	0	0	0	0	0
THD	116	0	0	0	0	0	0	0	0	0	0	0	0
THC	117	0	0	0	0	0	0	0	0	0	0	0	0
614	118	0	0	0	0	0	0	0	0	0	0	0	0
THA	119	0	0	0	0	0	0	0	0	1	1	1	1
615	120	0	0	0	0	0	0	0	0	0	0	0	0
651	121	0	0	0	0	0	0	0	0	0	0	0	0
725	122	0	0	0	0	0	0	0	0	0	0	0	0
892	123	0	0	0	0	0	0	0	0	0	0	0	0
891	124	0	0	0	0	0	0	0	0	0	0	0	0
920	125	0	0	0	0	0	0	0	0	0	0	0	0
858	126	0	0	0	0	0	0	0	0	0	0	0	0
Population estimate		0	957	957	0	0	0	0	0	668	668	668	1,625
SOUTHWEST													
646D	127	0	0	0	0	0	0	0	0	0	0	0	0

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Appendix F. (Page 5 of 7.)

STN	Tow #	Females			Sublegal Males				Recruit	Post recruit	Total Legal	Total Male	Total Crab
		Juv.	Adult	Total	Four	Three	Two	One					
646B	128	0	0	0	0	0	0	0	0	0	0	0	0
646A	129	0	0	0	0	0	0	0	0	0	0	0	0
645B	130	0	0	0	0	0	0	0	0	0	0	0	0
646C	131	0	0	0	0	0	0	0	0	0	0	0	0
682B	132	0	0	0	0	0	0	0	0	0	0	0	0
683A	133	0	0	0	0	0	0	0	0	0	0	0	0
684A	134	0	0	0	0	0	0	0	0	0	0	0	0
683B	135	0	0	0	0	0	0	0	0	0	0	0	0
683D	136	0	0	0	0	0	0	0	0	0	0	0	0
ALC	137	7	40	47	1	2	5	6	3	3	6	20	67
ALD	138	0	0	0	0	0	0	0	1	0	1	1	1
ALF	139	0	0	0	0	0	0	0	4	2	6	6	6
ALI	140	0	0	0	0	0	0	0	0	0	0	0	0
ALR	141	0	0	0	0	0	0	1	1	0	1	2	2
ALQ	142	0	0	0	0	0	0	0	0	0	0	0	0
ALP	143	0	0	0	1	0	0	0	0	0	0	1	1
ALO	144	0	0	0	0	0	0	0	0	0	0	0	0
ALL	145	0	0	0	0	0	0	0	0	0	0	0	0
ALH	146	0	0	0	0	0	0	0	1	0	0	0	1
ALB	147	0	0	0	0	0	0	0	0	0	0	0	0
ALA	148	0	29	29	0	0	1	7	7	1	8	16	45
608X	149	0	0	0	0	0	0	0	0	0	0	0	0
678X	150	0	0	0	0	0	0	0	0	0	0	0	0
677X	151	0	0	0	0	0	0	0	0	0	0	0	0
676X	152	0	0	0	0	0	0	0	0	0	0	0	0
712X	153	0	0	0	0	0	0	0	0	0	0	0	0
750X	154	0	0	0	0	0	0	0	0	0	0	0	0
684C	156	0	0	0	0	0	0	0	0	0	0	0	0
684B	157	0	0	0	0	0	0	0	0	0	0	0	0
ALJ	158	0	0	0	0	0	0	1	1	0	1	2	2
ALG	159	0	21	21	3	7	5	1	3	0	3	19	40
ALK	160	0	0	0	0	0	0	0	0	0	0	0	0
ALM	161	0	0	0	0	0	0	0	0	0	0	0	0
Pop	Est	2,520	36,866	39,386	3,854	6,887	6,342	5,973	10,316	3,115	13,431	36,486	75,873

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Appendix F. (Page 6 of 7.)

STN	Tow #	Females			Sublegal Males				Recruit	Post recruit	Total Legal	Total Male	Total Crab
		Juv.	Adult	Total	Four	Three	Two	One					
SHELI	KOF												
UYBX	311	0	0	0	0	0	0	0	0	0	0	0	0
UYQX	312	0	0	0	0	0	0	0	0	0	0	0	0
UYMX	313	0	0	0	0	0	0	0	0	0	0	0	0
UYKX	314	0	0	0	0	0	0	0	0	0	0	0	0
UYO	315	0	0	0	0	0	0	0	0	0	0	0	0
UYEX	316	0	0	0	0	0	0	0	0	0	0	0	0
UYFX	317	0	0	0	0	0	0	0	0	0	0	0	0
UYHX	318	0	0	0	0	0	0	0	0	0	0	0	0
224	319	0	0	0	0	0	0	0	0	0	0	0	0
171Y	320	0	0	0	0	0	0	0	0	0	0	0	0
172	321	0	0	0	0	0	0	0	0	0	0	0	0
222	322	0	1	1	0	0	0	0	0	0	0	0	1
223	323	0	0	0	0	0	0	0	0	0	0	0	0
198	324	0	0	0	0	0	0	0	0	0	0	0	0
199	325	0	0	0	0	0	0	0	0	0	0	0	0
200	326	0	0	0	0	0	0	0	0	0	0	0	0
KUY	327	0	0	0	0	0	0	0	0	0	0	0	0
KUYX	328	0	0	0	0	0	0	0	0	0	0	0	0
KUL	329	1	1	2	0	0	0	0	0	0	0	0	2
KULX	330	0	0	0	0	0	0	0	0	0	0	0	0
KUK	331	0	0	0	0	0	0	0	0	0	0	0	0
KUJ	332	0	0	0	0	0	0	0	0	0	0	0	0
KUI	333	0	0	0	0	0	0	0	0	0	0	0	0
KUM	334	0	0	0	0	0	0	0	0	0	0	0	0
KUG	335	0	0	0	0	0	0	0	0	0	0	0	0
KUF	336	0	0	0	0	0	0	0	0	0	0	0	0
KUE	337	0	0	0	0	0	0	0	0	0	0	0	0
KUD	338	0	0	0	0	0	0	0	0	0	0	0	0
RAA	339	0	0	0	0	0	0	0	0	0	0	0	0
174	340	0	0	0	0	0	0	0	0	0	0	0	0
147	341	0	0	0	0	0	0	0	0	0	0	0	0
146	342	0	0	0	0	0	0	0	0	0	0	0	0
145	343	0	0	0	0	0	0	0	0	0	0	0	0
117	344	0	0	0	0	0	0	0	0	0	0	0	0

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Appendix F. (Page 7 of 7.)

STN	Tow #	Females			Sublegal Males				Recruit	Post recruit	Total Legal	Total Male	Total Crab
		Juv.	Adult	Total	Four	Three	Two	One					
173	345	0	0	0	0	0	0	0	0	0	0	0	0
171X	346	0	0	0	0	0	0	0	0	0	0	0	0
171	347	0	0	0	0	0	0	0	0	3	3	3	3
144	348	0	0	0	0	0	0	0	0	0	0	0	0
118	349	0	0	0	0	0	0	0	0	0	0	0	0
90	350	0	0	0	0	0	0	0	0	0	0	0	0
119	351	0	0	0	0	0	0	0	0	0	0	0	0
120	352	0	0	0	0	0	0	0	0	0	0	0	0
121	353	0	0	0	0	0	0	0	0	0	0	0	0
91	354	0	0	0	0	0	0	0	0	0	0	0	0
60	355	0	0	0	0	0	0	0	0	0	0	0	0
61	356	0	0	0	0	0	0	0	0	0	0	0	0
31	357	0	0	0	0	0	0	0	0	0	0	0	0
2	358	0	0	0	0	0	0	0	0	0	0	0	0
3	359	0	0	0	0	0	0	0	0	0	0	0	0
PAA	360	0	0	0	0	0	0	0	0	0	0	0	0
MAA	361	0	0	0	0	0	0	0	0	0	0	0	0
KUN	362	0	0	0	0	0	0	0	0	0	0	0	0
KUO	363	0	0	0	0	0	0	0	0	0	0	0	0
KUP	364	0	0	0	0	0	0	0	0	0	0	0	0
KUQ	365	0	0	0	0	0	0	0	0	0	0	0	0
KUS	366	0	0	0	0	0	0	0	0	0	0	0	0
KUT	367	0	0	0	0	0	0	0	0	0	0	0	0
KUV	368	0	0	0	0	0	0	0	0	0	0	0	0
KUX	369	0	0	0	0	0	0	0	0	0	0	0	0
KUXX	370	0	0	0	0	0	0	0	0	0	0	0	0
KUU	371	0	0	0	0	0	0	0	0	0	0	0	0
KUW	372	0	0	0	0	0	0	0	0	0	0	0	0
Population estimate		120	5,133	5,253	0	0	0	0	0	1,686	1,686	1,686	6,939
Grand Total		3,005	48,055	51,059	4,335	7,004	6,575	6,170	10,548	8,669	19,217	43,300	94,360

Appendix G.1 *Bathyraja* lengths by area from a trawl survey of the Kodiak area, 1996.

Length (cm)	Area Group																				Totals
	1	2	3	4	5	6	7	8	10	11	12	13	14	15	16	17	18	19	20		
≤10	3	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
11	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
12	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
13	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
14	4	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	
15	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
16	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
17	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	
18	6	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	8	
19	7	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	
20	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
21	5	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	
22	2	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	3	
23	4	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
24	6	1	0	1	0	0	0	0	0	2	1	0	0	0	0	0	0	1	0	12	
25	4	1	0	4	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	11	
26	7	2	0	7	0	0	0	0	0	0	1	0	0	1	0	0	2	0	1	21	
27	5	2	1	7	0	0	2	1	0	0	0	1	0	0	0	0	0	1	2	22	
28	4	2	1	4	0	0	1	0	0	0	1	0	0	0	0	0	0	0	1	14	
29	5	2	0	6	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	19	
30	9	0	0	3	1	0	3	0	0	2	0	1	0	0	0	0	0	0	0	19	
31	14	1	3	6	0	0	1	1	0	0	0	0	1	0	0	0	0	1	0	28	
32	16	3	0	8	0	0	4	1	0	0	4	0	1	0	0	0	0	0	0	37	
33	8	3	4	13	0	0	3	1	0	0	4	0	0	0	0	0	2	1	1	40	
34	19	1	3	5	0	0	3	0	0	1	2	0	2	0	0	0	0	2	0	38	
35	10	2	2	5	0	0	1	0	0	0	0	0	0	1	0	0	1	2	0	24	
36	19	1	1	4	0	0	3	0	0	0	2	0	0	0	0	0	2	0	0	32	
37	3	0	1	8	1	0	6	0	0	0	4	1	0	1	0	1	4	4	0	34	
38	9	1	2	5	0	0	0	0	0	0	1	0	0	0	0	1	1	2	0	22	
39	2	0	1	3	0	0	0	0	0	1	2	0	0	0	0	0	1	1	0	11	
40	0	0	0	3	0	0	3	0	0	0	0	0	0	0	0	0	1	1	0	8	
41	2	1	2	1	0	0	3	0	0	0	1	0	0	0	0	0	0	1	0	11	
42	2	0	0	3	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	7	
43	1	0	0	1	0	0	1	0	0	1	0	0	0	0	0	0	0	2	0	6	
44	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
45	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
46	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3	
47	0	0	0	5	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	7	
48	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	5	
49	0	1	0	3	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	6	
50	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
51	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
52	3	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	6	
53	2	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	4	
54	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
55	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
56	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	4	
57	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
58	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	3	
59	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	3	
60	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
62	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	
63	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
64	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	
65	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	
66	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
67	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
68	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
69	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
70	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
71	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
73	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
75	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	
78	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
79	0	0	0	2	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	4	

- 1. Shelikof
- 2. Marmot offshore
- 3. Chiniak offshore
- 4. Barnabas
- 5. Twoheaded
- 6. Afrik Flats
- 7. Geese Islands
- 8. Sitskinak Island
- 10. Alitak Bay
- 11. Chiniak Bay
- 12. Kiliuda Bay
- 13. Kupreanof-Vlakoda
- 14. Uganik Bay
- 15. Inner Marmot
- 16. Malina-Raspberry
- 17. Ugak Bay
- 18. Southwest offshore
- 19. Marmot-Izhtu Bay
- 20. Uyak Bay

Appendix G.2 Big skate lengths by area from a trawl survey of the Kodiak area, 1996.

Length (cm)	Area Group																				Totals
	1	2	3	4	5	6	7	8	10	11	12	13	14	15	16	17	19	20			
≤ 26	7	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	9	
27	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
30	3	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	4	
31	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
32	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	4	
33	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2	
34	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	
35	4	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	7	
36	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
37	3	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	5	
38	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	
39	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	
41	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
42	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
43	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	
44	3	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	6	
45	5	0	0	0	0	0	0	0	0	3	1	0	0	0	0	0	0	0	1	10	
46	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
47	3	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	
48	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
49	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	
50	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	3	
51	6	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	1	0	0	10	
52	3	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	2	0	0	8	
53	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	
54	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	3	
55	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1	5	
56	7	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	9	
57	2	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	4	0	0	8	
58	3	0	0	1	0	0	0	0	1	0	0	0	0	0	0	1	0	0	1	7	
59	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
60	0	0	0	2	0	4	0	0	0	1	0	0	0	0	0	0	1	0	1	9	
61	2	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	1	0	0	6	
62	2	0	0	1	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	5	
63	1	0	0	0	1	1	0	0	0	1	0	0	1	0	0	0	1	0	0	6	
64	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	6	
65	2	0	0	0	1	2	0	0	1	0	0	0	0	0	0	3	0	0	0	9	
66	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	3	
67	1	0	0	1	1	1	0	0	1	0	0	0	0	0	0	0	1	0	0	6	
68	2	0	0	0	0	1	0	1	1	1	0	0	0	0	0	1	0	0	0	7	
69	1	0	1	1	0	2	0	0	2	0	0	0	1	0	0	0	2	0	0	10	
70	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	0	2	
71	1	0	0	1	0	1	0	0	1	0	0	0	0	1	1	0	0	0	0	6	
72	1	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	1	0	0	5	
73	2	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	1	1	0	7	
74	5	0	0	0	1	1	0	1	0	2	0	0	1	0	0	0	0	0	0	11	
75	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
76	0	0	0	0	1	3	0	0	1	1	0	0	0	1	0	0	0	1	0	8	
77	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	
78	1	0	0	0	0	1	0	1	0	0	0	0	0	0	1	0	1	0	0	5	
79	2	0	0	0	0	4	0	0	1	1	0	0	0	0	0	0	0	0	0	8	
80	2	0	0	0	1	0	0	1	1	1	0	0	0	0	0	0	1	0	0	7	
81	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
82	0	0	0	0	0	0	0	0	0	2	0	1	0	0	0	0	1	0	0	4	
83	1	0	0	0	0	1	0	0	1	1	0	0	0	1	0	1	1	0	0	7	
84	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	
85	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
86	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	4	
87	0	0	1	0	1	4	0	0	0	1	0	0	0	0	0	0	2	0	0	9	
88	2	0	0	0	2	0	0	0	0	1	0	0	0	0	0	0	1	0	1	7	
89	0	0	0	0	2	3	0	0	1	1	0	0	0	0	0	0	0	0	0	7	
≥ 90	9	0	4	1	1	13	0	3	8	6	1	2	0	0	3	12	0	0	0	63	
	129	1	6	11	16	57	1	7	25	29	7	5	6	2	8	49	2	13	374		

- 1. Shellkof
- 5. Twoheaded
- 10. Alitak Bay
- 14. Uganik Bay
- 19. Marmot-Izhut Bay
- 2. Marmot offshore
- 6. Alitak Flats
- 11. Chiniak Bay
- 15. Inner Marmot
- 20. Uyak Bay
- 3. Chiniak offshore
- 7. Geese Islands
- 12. Kiliuda Bay
- 16. Malina-Raspberry
- 4. Bamabas
- 8. Sitsinak Island
- 13. Kupreanof-Viekoda
- 17. Ugak Bay

Appendix G.3 Longnose skate (*Raja rhina*) lengths by area from a trawl survey of the Kodiak area, 1996.

Length (cm)	Area Group																				Totals
	1	2	3	4	5	6	7	11	12	13	14	15	16	17	18	19	20				
≤ 15	1	2	0	2	1	0	2	0	0	0	1	0	0	0	0	1	0	3	13		
16	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6		
17	1	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5		
18	0	0	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2		
19	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3		
20	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3		
21	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2		
22	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2		
23	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	2	
24	0	2	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	1	6		
25	0	0	0	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	4		
26	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
27	1	0	0	2	0	0	0	0	1	0	0	1	1	0	0	0	0	0	6		
28	1	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	5		
29	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
30	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	1	0	5		
32	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	3		
33	2	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	2		
34	0	0	0	3	0	0	0	0	1	0	0	0	0	0	0	0	0	0	4		
35	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	2		
36	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
37	1	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3		
38	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2		
39	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	3		
40	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
41	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	2		
42	1	1	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	4		
43	1	0	0	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	4		
44	1	1	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	4		
45	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	0	3		
46	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
48	2	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	4		
49	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1		
50	2	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1		
51	1	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	3		
52	1	1	0	0	0	0	0	0	0	1	1	0	2	0	0	1	0	0	7		
53	0	1	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1		
54	2	1	0	0	0	0	0	0	1	0	1	1	0	0	0	0	1	2	9		
55	0	1	0	0	0	0	0	0	3	0	0	1	1	0	0	0	0	0	10		
56	1	1	0	2	0	0	0	0	1	1	0	1	2	0	1	0	2	12			
57	0	0	1	4	3	0	0	0	1	0	0	1	1	1	1	1	1	0	14		
58	2	4	0	1	0	0	0	1	2	0	0	2	1	0	1	2	0	0	16		
59	1	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1		
60	2	1	0	1	0	0	0	0	1	2	2	2	2	1	0	0	1	0	13		
61	2	0	0	0	1	0	0	0	2	1	0	1	2	0	0	1	0	0	10		
62	3	1	0	0	0	0	0	0	0	0	2	3	0	0	0	0	1	1	11		
63	1	1	0	0	1	0	0	0	0	3	0	0	1	0	0	0	1	0	9		
64	2	1	1	0	0	0	2	0	1	0	0	0	0	0	0	0	1	2	10		
65	3	0	1	0	0	1	0	0	0	3	2	1	0	1	0	0	0	2	14		
66	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
67	2	1	1	4	0	0	0	0	1	0	0	0	0	0	2	0	1	0	12		
68	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	1	3		
69	5	1	1	0	1	1	0	1	1	0	1	0	0	0	0	0	1	0	13		
70	2	0	0	0	0	0	0	2	0	1	0	0	0	0	0	0	0	0	5		
71	1	1	0	0	0	0	0	2	0	0	1	2	0	0	0	0	1	2	10		
72	0	0	1	1	0	0	1	0	0	0	0	1	0	0	0	0	0	0	4		
73	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2		
74	1	0	0	0	0	0	0	3	0	0	0	1	0	0	0	0	0	0	5		
≥ 75	3	1	0	3	1	0	0	1	0	0	0	1	0	0	0	0	1	0	11		
	59	30	7	54	8	3	15	17	13	18	17	23	8	5	13	12	32	334			

- 1. Shelikof
- 2. Marmot offshore
- 3. Chiniak offshore
- 4. Barnabas
- 5. Twoheaded
- 6. Afiaak Flats
- 7. Geese Islands
- 8. Chiniak Bay
- 9. Barnabas
- 10. Kiliuda Bay
- 11. Chiniak Bay
- 12. Kupreanof-Viekoda
- 13. Uganik Bay
- 14. Uganik Bay
- 15. Inner Marmot
- 16. Malina-Raspberry
- 17. Ugak Bay
- 18. Southwest offshore
- 19. Marmot-Izhiut Bay
- 20. Uyak Bay

Appendix G.4. Arrowtooth flounder lengths by area from a trawl survey of the Kodiak area, 1996.

Length (cm)	Area Group																				Totals
	1	2	3	4	5	6	7	8	10	11	12	13	14	15	16	17	18	19	20		
7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
9	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
10	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7
11	1	0	1	3	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	17
12	4	1	0	5	0	0	0	0	0	0	1	0	0	2	0	3	0	0	0	1	11
13	3	0	0	3	0	1	0	0	2	1	0	0	0	0	0	1	0	0	0	0	12
14	1	0	0	0	0	0	0	0	2	0	0	3	0	1	0	5	0	0	0	0	21
15	1	0	0	1	0	0	1	0	7	1	0	6	0	1	0	3	0	0	0	0	15
16	1	0	0	0	0	0	0	0	6	0	0	4	0	0	0	3	0	0	1	0	17
17	2	0	0	3	2	1	1	1	0	0	1	0	2	0	2	0	0	0	1	1	30
18	1	0	1	10	3	0	3	2	0	1	3	0	0	1	0	4	0	0	1	0	35
19	3	0	2	18	5	0	2	1	0	0	1	0	0	0	0	3	0	0	0	0	63
20	5	1	3	25	4	1	5	1	0	5	3	0	0	2	0	5	0	0	0	3	72
21	4	0	7	23	1	2	3	3	1	2	5	5	0	2	0	11	0	1	4	96	
22	13	1	8	26	3	3	3	4	1	9	3	5	1	4	0	8	0	0	4	81	
23	6	1	5	13	1	5	2	6	4	14	2	3	2	7	2	1	0	2	5	113	
24	15	1	5	7	0	7	3	1	20	20	7	3	4	12	0	4	0	0	4	83	
25	9	0	0	4	1	7	0	1	8	18	6	1	2	10	2	4	0	2	8	87	
26	8	0	0	10	1	11	2	1	10	20	1	2	4	11	0	4	0	1	1	70	
27	8	0	0	6	1	9	4	2	8	13	1	2	3	5	1	3	1	0	3	58	
28	5	0	0	21	0	4	4	0	1	6	1	4	5	2	2	1	1	0	1	51	
29	7	1	1	24	5	0	0	3	2	0	0	1	0	3	0	0	1	0	3	93	
30	20	0	3	28	4	1	5	5	2	1	3	7	1	6	0	2	0	0	5	84	
31	12	3	3	26	7	5	2	3	3	1	1	2	0	5	2	1	1	1	6	119	
32	17	1	3	31	11	4	5	7	8	0	8	6	2	4	2	3	2	2	3	106	
33	16	4	1	33	9	3	5	4	4	4	3	4	5	4	1	0	1	0	5	115	
34	20	3	4	28	11	8	7	4	4	1	7	4	3	2	2	2	3	2	0	98	
35	15	1	1	25	11	2	3	3	2	2	6	2	3	9	1	3	1	4	4	91	
36	15	3	2	31	3	3	2	4	3	1	7	3	3	0	0	4	1	2	4	86	
37	9	2	1	32	7	2	1	3	2	4	6	1	3	2	1	1	4	1	4	70	
38	8	2	4	19	1	2	2	2	1	6	1	7	3	3	2	0	3	1	2	88	
39	10	3	3	19	4	2	3	6	8	3	2	4	3	8	0	0	2	3	5	69	
40	10	3	1	19	3	0	1	2	4	6	1	2	4	2	1	1	7	1	1	87	
41	10	4	2	26	4	0	3	1	3	1	6	1	3	5	0	2	6	4	6	73	
42	8	3	2	20	2	1	2	4	4	2	7	1	1	3	0	0	7	3	3	69	
43	9	2	3	22	3	0	4	2	3	1	3	0	4	2	0	1	4	4	2	71	
44	6	2	2	23	2	3	2	3	3	1	3	4	5	3	0	2	5	2	0	64	
45	13	3	6	12	1	0	1	1	4	2	2	1	4	4	1	1	3	1	4	63	
46	9	2	4	14	7	2	1	5	1	2	2	0	0	3	2	0	5	0	4	58	
47	15	0	1	10	0	2	3	1	1	3	1	0	0	3	3	0	1	8	3	57	
48	13	4	1	8	7	1	4	4	1	1	2	0	3	1	1	0	4	0	2	51	
49	13	0	2	10	8	0	2	1	1	0	2	0	0	0	0	0	0	8	1	52	
50	8	1	1	14	5	1	1	1	1	3	3	1	1	4	1	0	4	2	0	64	
51	17	0	2	11	4	0	2	8	2	0	5	2	1	4	2	1	2	0	1	59	
52	14	2	5	12	2	1	0	0	2	1	2	4	4	0	2	1	3	2	2	59	
53	13	2	4	11	0	1	1	4	4	2	3	3	1	1	0	2	3	2	2	52	
54	10	1	2	8	4	4	1	2	0	2	1	0	3	3	0	3	4	1	3	60	
55	10	0	1	15	3	1	0	5	2	1	3	2	5	1	1	1	4	0	5	38	
56	7	3	0	9	0	1	0	0	3	1	2	3	4	1	0	0	3	1	0	36	
57	7	1	0	9	0	1	1	0	2	2	2	1	2	1	1	1	0	5	0	45	
58	6	3	1	14	1	1	0	1	2	3	1	1	7	0	1	1	0	2	0	23	
59	7	0	0	1	1	1	3	0	0	2	0	0	3	0	0	1	1	4	0	31	
60	8	0	0	5	2	2	1	1	0	2	1	2	3	0	0	2	2	0	0	25	
61	4	1	0	5	2	0	0	0	1	1	1	1	1	2	0	0	1	4	1	24	
62	7	2	1	0	2	0	1	0	2	0	2	0	1	1	1	0	1	3	0	15	
63	5	1	1	1	3	2	0	0	1	1	0	0	0	0	0	0	0	0	0	17	
64	5	0	0	3	3	0	0	0	0	2	1	0	1	0	1	1	0	0	0	18	
65	4	0	1	2	1	0	3	0	0	0	1	1	4	0	0	0	0	1	0	15	
66	4	0	0	1	1	1	0	0	0	1	3	1	3	0	0	0	0	0	0	14	
67	1	0	0	3	0	2	1	1	0	0	1	2	0	0	0	1	2	0	0	14	
68	1	1	0	3	2	0	2	0	0	1	1	0	1	1	0	1	0	0	0	11	
69	4	0	0	1	2	0	1	0	1	0	0	0	1	0	0	1	0	0	0	16	
70	2	0	0	2	1	0	3	0	1	1	0	0	2	2	0	1	1	0	0	12	
71	2	0	0	2	2	0	1	1	0	0	0	1	0	0	0	0	2	1	9		
72	2	0	1	2	0	0	1	0	0	0	0	0	2	0	0	0	0	0	1	10	

--Continued--

Appendix G.4. (Page 2 of 2.)

Length (cm)	Area Group																				Totals
	1	2	3	4	5	6	7	8	10	11	12	13	14	15	16	17	18	19	20		
73	1	1	0	2	1	0	2	0	0	1	0	0	1	0	0	0	0	1	0	8	
74	2	1	0	1	1	0	0	0	0	0	1	0	0	0	0	0	0	0	2	12	
75	3	0	1	2	0	1	1	1	0	0	0	1	0	0	0	2	0	0	0	10	
76	1	2	0	2	0	0	1	0	0	0	0	0	1	0	0	0	1	2	0	8	
77	4	0	0	1	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	5	
78	0	0	0	1	0	0	1	0	0	0	0	2	0	0	0	1	0	0	0	2	
79	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	3	
81	0	0	0	0	1	0	0	1	0	0	0	0	0	0	1	0	0	0	0	2	
82	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	2	
84	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2	
	506	73	103	783	176	114	118	118	168	170	146	111	129	155	32	113	112	75	123	3325	

- 1. Shelikof
- 2. Marmot offshore
- 3. Chiniak offshore
- 4. Barnabas
- 5. Twoheaded
- 6. Alitak Flats
- 7. Geese Islands
- 8. Sitkinak Island
- 10. Alitak Bay
- 11. Chiniak Bay
- 12. Kiliuda Bay
- 13. Kupreanof-Viekoda
- 14. Uganik Bay
- 15. Inner Marmot
- 16. Malina-Raspberry
- 17. Ugak Bay
- 18. Southwest offshore
- 19. Marmot-Izhut Bay
- 20. Uyak Bay

Appendix G.5 Halibut lengths from a trawl survey of the Kodiak area, 1996.

Length (cm)	Area Group																				Totals
	1	2	3	4	5	6	7	8	10	11	12	13	14	15	16	17	18	19	20		
≤25	1	0	0	0	0	0	0	0	0	6	4	0	0	0	0	0	0	0	0	0	11
26	0	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	3
27	0	0	0	0	0	0	0	0	0	5	4	2	0	0	0	0	0	0	0	0	11
28	0	0	0	0	0	0	0	0	0	1	5	1	0	0	0	0	0	0	0	0	7
29	1	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	5
30	0	0	0	0	0	0	0	0	2	6	0	0	0	0	0	0	0	0	0	0	8
31	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	4
32	2	0	0	0	0	0	0	0	0	3	4	0	0	0	0	0	0	0	0	0	9
33	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	0	0	4
34	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
35	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
36	0	0	0	0	0	0	0	0	0	1	1	0	1	0	0	0	0	0	0	0	3
38	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
40	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2
41	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2
42	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
43	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	2
44	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
45	0	0	0	0	1	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	3
47	1	0	0	0	0	1	1	0	0	1	0	1	0	0	0	0	0	0	0	0	5
48	1	0	0	2	0	0	0	0	0	0	2	0	1	1	0	0	0	0	1	0	8
49	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2
50	0	0	0	2	0	1	1	0	0	0	1	1	1	0	0	0	0	0	0	0	1
51	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
52	0	0	0	1	0	0	0	0	1	1	0	1	0	1	0	0	0	1	0	1	7
53	3	0	0	0	2	3	1	0	1	0	0	2	1	0	0	0	0	0	0	1	14
54	1	0	0	0	1	1	0	1	0	0	1	1	1	1	0	0	1	0	1	0	10
55	0	0	0	1	0	1	0	0	0	0	0	1	1	0	2	1	0	0	0	0	7
56	3	0	2	1	0	0	3	0	0	0	0	2	1	0	0	3	0	0	0	1	16
57	1	0	0	1	0	2	0	0	0	0	2	0	0	0	0	2	0	0	1	0	9
58	3	0	0	6	0	0	0	0	1	1	3	0	1	1	2	0	0	0	0	0	19
59	0	1	0	0	1	0	0	0	0	1	0	1	1	0	1	0	1	0	0	0	7
60	3	0	0	1	1	2	0	0	1	2	2	2	0	0	0	1	1	0	0	0	16
61	1	0	0	1	0	1	0	1	1	1	1	1	0	1	0	0	0	0	0	0	9
62	2	0	0	1	0	3	1	0	0	0	0	1	0	0	0	0	3	0	0	0	11
63	6	0	0	0	1	0	2	0	0	1	1	0	3	3	3	1	0	0	0	1	22
64	3	0	1	4	0	2	0	0	0	2	1	1	2	2	1	0	0	0	0	1	20
65	0	0	1	2	2	2	1	1	0	4	0	2	1	0	0	1	0	0	0	0	17
66	2	1	0	2	0	0	1	0	1	1	1	0	0	1	0	1	0	0	0	0	11
67	1	0	1	3	0	0	0	2	1	1	0	3	1	3	0	1	1	0	0	0	18
68	4	0	0	2	1	2	0	1	1	2	1	2	2	1	1	3	1	0	1	0	25
69	2	1	0	1	1	0	0	0	3	1	0	3	3	1	1	0	0	0	1	0	18
70	1	1	0	1	0	2	0	0	2	4	1	2	1	1	2	1	1	0	2	0	22
71	0	0	3	2	1	0	1	1	1	1	1	3	0	1	0	0	1	0	0	0	16
72	3	1	0	2	1	2	1	1	0	2	2	2	0	0	0	0	0	1	0	1	19
73	1	1	1	2	0	1	2	1	1	0	0	0	1	3	0	1	0	0	0	0	15
74	1	0	0	1	0	0	0	0	1	0	3	0	2	3	0	0	0	1	1	0	13
75	2	3	0	5	0	0	0	1	2	1	3	0	2	2	1	0	1	1	0	2	26
76	2	0	0	3	0	2	1	1	3	1	1	3	1	1	0	1	0	0	0	0	21
77	3	2	0	2	0	0	1	4	2	0	4	1	0	2	0	0	2	0	0	0	23
78	3	0	2	2	2	3	0	1	2	1	1	2	4	2	2	0	1	0	0	0	26
79	1	0	0	1	0	0	0	2	0	1	0	1	2	0	0	1	0	0	1	0	10
80	0	0	1	3	0	3	0	1	0	3	0	0	0	1	0	0	2	1	0	0	17
81	3	0	0	1	0	2	1	0	1	1	1	0	1	1	0	0	0	0	0	0	12
82	3	0	1	3	0	4	1	0	3	1	1	0	0	0	1	6	3	0	0	0	27
83	3	0	0	0	1	2	0	1	2	1	1	0	1	1	1	1	1	0	0	0	16
84	0	0	4	1	0	3	0	2	0	2	0	3	1	1	0	2	1	0	0	0	20
85	1	0	0	6	3	1	1	0	0	1	0	3	0	1	0	4	1	1	0	0	23
86	1	0	0	2	0	1	1	0	0	2	0	3	0	1	1	0	0	0	0	0	12
87	3	0	4	3	2	3	2	1	1	1	0	2	0	0	0	1	1	0	0	0	24
88	1	1	1	4	2	3	0	0	0	1	0	3	0	0	0	1	1	0	0	0	18
89	0	0	0	4	1	2	0	0	1	0	0	0	1	0	0	1	1	0	0	2	13
90	2	1	0	2	0	2	1	0	1	3	0	0	0	1	0	0	0	0	0	0	13
91	0	1	0	1	1	0	1	0	0	0	0	0	0	1	0	0	0	0	0	0	5
92	1	2	0	0	0	2	2	0	0	1	0	0	0	0	0	0	1	1	0	0	10

--Continued--

Appendix G.5. (Page 3 of 4.)

Length (cm)	Area Group																				Totals
	1	2	3	4	5	6	7	8	10	11	12	13	14	15	16	17	18	19	20		
93	1	0	2	0	1	2	2	0	0	0	0	0	0	2	1	0	0	0	0	0	11
94	2	0	1	1	0	1	1	0	0	0	0	1	1	1	0	1	0	0	0	1	11
95	1	0	0	0	1	3	0	0	0	1	1	1	0	0	1	0	0	0	1	0	10
96	0	0	0	0	0	5	1	0	1	0	0	0	1	0	0	0	0	0	0	0	8
97	3	1	1	5	1	2	2	0	0	0	0	1	0	1	1	0	0	0	0	1	19
98	3	0	0	1	1	0	1	0	1	2	0	1	0	1	2	1	0	2	0	0	16
99	2	0	0	1	0	1	0	0	0	2	0	0	0	0	0	0	0	2	0	1	9
100	1	2	0	1	1	1	1	0	0	4	0	3	0	1	1	0	0	0	0	1	17
101	0	2	0	1	1	6	0	0	0	1	0	3	0	0	0	0	0	0	2	2	18
102	0	0	1	1	0	3	1	0	2	3	1	1	0	1	0	1	0	0	0	0	15
103	2	1	0	2	1	1	2	1	0	0	1	2	1	0	0	0	0	0	0	0	14
104	0	0	0	0	0	0	1	0	1	3	0	1	0	1	0	0	0	0	0	0	7
105	2	0	0	1	1	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	6
106	0	0	1	0	0	2	0	1	2	0	0	0	0	0	0	0	1	0	0	2	9
107	1	0	0	0	0	3	1	0	0	0	0	2	0	1	0	1	2	0	0	0	11
108	0	0	0	0	0	2	1	0	1	0	0	1	0	1	0	0	0	0	0	0	6
109	0	0	0	0	1	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	4
110	1	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	0	1	0	0	5
111	0	0	0	3	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
112	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	0	2
113	0	0	0	1	1	2	0	0	1	0	0	1	2	2	0	0	0	0	0	0	10
114	1	1	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	4
115	1	0	0	1	1	2	0	0	0	0	0	0	0	2	0	0	0	0	0	0	7
116	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
117	0	0	0	0	0	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	5
118	1	0	0	1	2	2	0	0	0	1	0	0	0	0	0	0	0	0	0	0	7
119	0	0	0	1	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	3
120	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	3
122	0	0	0	0	0	1	0	0	1	0	0	0	0	0	1	0	1	0	0	0	4
123	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	3
124	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	0	0	0	3
125	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
126	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
127	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1
128	0	0	0	1	0	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	4
129	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	2
130	0	0	0	0	0	1	1	0	1	1	0	0	0	0	0	0	0	0	0	0	4
131	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	1
132	0	0	0	0	0	3	0	0	0	0	0	0	0	0	1	0	0	1	0	0	5
133	1	0	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	3
135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	2
138	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
143	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
144	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1
149	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
150	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
152	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
162	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
164	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
165	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
166	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
172	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
174	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	107	24	28	108	39	117	45	27	50	96	73	92	51	53	20	51	31	14	29	1055	

- 1. Shelikof
- 2. Marmot offshore
- 3. Chiniak offshore
- 4. Barnabas
- 5. Twoheaded
- 6. Alitak Flats
- 7. Geese Islands
- 8. Sitkinak Island
- 10. Alitak Bay
- 11. Chiniak Bay
- 12. Kiliuda Bay
- 13. Kupreanof-Viekoda
- 14. Uganik Bay
- 15. Inner Marmot
- 16. Malina-Raspberry
- 17. Ugak Bay
- 18. Southwest offshore
- 19. Marmot-Izhut Bay
- 20. Uyak Bay

Appendix G.6 Flathead sole lengths by area from a trawl survey of the Kodiak area, 1996.

Length (cm)	Area Group																				Totals
	1	2	3	4	5	6	7	8	10	11	12	13	14	15	16	17	18	19	20		
7	1	0	0	1	2	0	0	0	0	1	0	0	0	0	0	1	1	0	0	0	7
8	1	0	0	0	1	1	0	0	0	1	6	2	0	0	1	2	0	0	0	0	15
9	4	0	0	1	0	4	1	1	1	4	0	1	1	1	0	0	0	0	0	2	21
10	0	0	0	0	0	3	2	0	4	1	2	0	1	1	0	1	0	0	0	1	16
11	1	1	0	7	1	1	3	0	3	0	2	3	1	2	0	0	1	0	0	6	32
12	1	1	0	9	4	4	6	1	5	3	5	2	1	5	3	5	1	1	6	63	
13	10	2	1	6	4	6	4	0	8	3	9	9	7	5	0	8	3	2	8	95	
14	16	4	1	12	8	13	5	0	5	5	5	6	5	8	5	8	2	0	6	114	
15	10	2	1	16	5	12	5	0	5	10	2	6	2	11	0	11	2	0	4	104	
16	5	0	6	13	5	6	1	0	5	9	9	4	2	10	1	10	1	1	3	91	
17	4	0	7	19	16	7	4	0	1	10	7	3	3	8	0	10	2	1	6	108	
18	4	1	7	8	15	13	10	0	4	2	5	2	3	12	1	10	1	2	1	101	
19	5	4	3	11	13	9	7	0	2	7	2	2	5	10	1	6	1	1	6	95	
20	4	2	2	15	3	0	6	1	4	11	4	1	13	13	0	6	1	2	8	96	
21	6	0	1	23	10	4	5	0	2	10	4	3	8	10	0	7	1	2	2	98	
22	2	2	0	16	16	3	7	0	4	7	2	3	15	17	1	3	1	1	5	105	
23	5	3	2	34	6	9	12	0	4	10	5	5	8	5	4	4	0	0	6	122	
24	1	0	0	30	6	5	15	1	8	13	5	8	9	9	3	8	2	1	8	132	
25	3	7	6	31	12	13	8	0	12	14	2	14	16	6	1	6	1	3	11	166	
26	7	2	2	27	14	10	11	0	12	13	5	9	11	5	4	6	3	8	9	158	
27	6	3	0	28	11	16	7	0	20	7	3	17	10	10	1	7	1	8	8	163	
28	9	6	1	22	27	14	11	0	33	15	5	10	20	5	5	12	0	5	12	212	
29	14	1	0	19	11	23	10	2	40	16	6	8	21	12	8	9	4	0	15	219	
30	17	5	0	20	21	30	7	0	40	27	10	18	13	14	4	8	2	0	22	258	
31	24	2	1	24	19	22	17	2	46	14	7	19	15	15	5	8	7	4	11	262	
32	39	6	1	28	24	24	10	3	31	23	8	8	22	21	11	7	8	3	20	297	
33	31	2	2	17	26	20	8	1	24	15	15	17	6	20	1	9	3	9	12	238	
34	45	6	4	17	30	16	11	2	18	15	16	18	17	20	10	13	4	6	10	278	
35	23	8	5	29	19	16	12	2	12	11	19	15	12	24	5	11	3	9	10	245	
36	32	8	2	12	13	20	7	0	16	11	10	10	10	9	5	15	3	10	9	202	
37	19	4	6	10	13	9	1	1	15	19	16	10	9	20	4	6	1	6	7	176	
38	15	4	5	7	11	14	7	0	9	14	5	9	4	17	7	6	3	14	3	154	
39	12	4	2	5	7	11	3	1	11	9	14	10	4	9	2	11	1	12	3	131	
40	7	4	0	1	5	2	1	0	4	12	9	1	4	10	1	7	0	6	2	76	
41	5	1	2	1	4	1	1	0	1	5	8	2	0	5	1	9	1	10	2	59	
42	4	0	2	1	7	0	2	0	0	4	4	0	0	4	0	6	0	3	1	38	
43	3	0	0	1	2	0	0	0	1	1	1	0	0	2	3	5	0	1	0	20	
44	1	0	1	1	2	1	1	0	0	1	1	0	0	1	0	4	0	1	0	15	
45	1	0	0	0	0	0	0	0	1	0	0	1	0	1	1	6	0	0	0	11	
46	0	0	0	1	1	0	1	0	0	0	1	0	0	0	0	1	0	0	0	5	
47	1	0	0	1	0	1	0	0	0	0	1	0	0	0	0	4	0	0	0	8	
48	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
49	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1	

- 1. Shelikof
- 2. Marmot offshore
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- 7. Geese Islands
- 8. Sitkinak Island
- 10. Alitak Bay
- 11. Chiniak Bay
- 12. Kiliuda Bay
- 13. Kupreanof-Viekoda
- 14. Uganik Bay
- 15. Inner Marmot
- 16. Malina-Raspberry
- 17. Ugak Bay
- 18. Southwest offshore
- 19. Marmot-Izhut Bay
- 20. Uyak Bay

Appendix G.7 English sole lengths (cms) from a trawl survey of the Kodiak area, 1996.

Length (cm)	Area Group								Totals
	1	4	5	13	14	17	20		
26	0	0	1	0	0	0	0	0	1
28	0	0	0	0	1	1	0	0	2
29	0	0	0	0	1	1	0	0	2
30	0	0	0	0	2	0	0	0	2
33	0	0	0	0	1	0	0	0	1
34	0	0	0	0	1	0	0	0	1
36	0	0	0	0	2	0	0	0	2
37	0	0	0	0	4	0	1	5	
39	1	0	0	0	0	0	0	0	1
40	0	1	0	1	1	0	0	0	3
41	0	1	0	0	3	0	0	0	4
42	0	0	0	0	2	0	1	3	
44	0	0	0	0	1	0	0	0	1
46	0	1	0	1	0	0	0	0	2
48	0	1	0	0	0	0	0	0	1
49	0	0	0	0	0	0	2	2	
≥50	0	1	0	4	1	0	2	14	
	1	5	1	6	20	2	6	41	

Appendix G.8 Dover sole lengths (cms) from a trawl survey of the Kodiak area, 1996.

Length (cm)	Area Group																			Totals
	1	2	3	4	5	7	8	10	12	13	14	16	17	18	19	20				
≤26	0	1	0	1	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	7
28	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
29	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
32	0	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	1	0	0	3
35	2	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	3
36	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1
37	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
38	0	0	1	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	3
39	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
40	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
41	0	0	0	1	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
42	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	3
43	0	0	0	1	0	0	0	0	0	2	1	0	0	0	0	0	0	0	0	4
44	1	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	0	2	5	
45	1	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
46	0	0	0	2	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	3
47	2	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	0	0	4
48	0	0	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	1	0	4
49	0	0	1	3	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	6
50	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
51	1	4	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	7
52	0	0	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	0	0	3
53	2	3	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	7
54	0	0	1	1	1	1	0	0	0	2	0	0	0	0	0	0	0	1	0	7
55	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
56	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
57	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
≥60	0	0	0	5	1	0	2	0	0	0	0	0	0	0	3	0	0	0	11	
	15	11	3	20	6	2	7	2	3	10	2	2	2	1	7	4	5	100		
1. Shelikof	4. Barnabas	8. Sittinak Is	13. Kup.-Viekoda	17. Ugak Bay	20. Uyak Bay															
2. Marmot offshore	5. Twoheaded	10. Alitak Bay	14. Uganik Bay	18. Southwest offshore																
3. Chiniak offshore	7. Geese Is	12. Kiliuda Bay	16. Malina-Raspberry	19. Marmot-Izhut Bay																

Appendix G.9 Rex sole lengths (cms) from a trawl survey of the Kodiak area, 1996.

Length (cm)	Area Group																		Totals
	1	2	3	4	5	6	7	8	10	11	12	13	15	17	18	19			
≤ 25	0	0	2	2	1	0	0	1	1	0	0	1	1	1	1	0	11		
26	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
27	0	0	0	1	0	0	1	0	1	0	0	0	0	1	0	0	0	4	
28	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	2	
29	0	0	1	1	0	0	0	0	0	1	0	1	0	0	0	0	0	4	
30	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
31	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	1	
32	0	0	0	1	0	0	0	1	0	1	0	1	0	0	0	0	0	4	
33	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
34	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
35	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2	
36	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	2	
37	0	0	1	3	0	0	2	1	0	0	0	0	0	0	0	0	0	7	
38	0	0	1	3	0	0	0	7	0	0	0	0	0	0	0	0	0	11	
39	0	1	1	2	0	0	0	3	0	0	0	0	0	0	0	0	1	8	
40	0	1	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	3	
41	0	0	2	0	0	0	0	0	0	0	0	0	0	0	1	0	0	3	
42	0	0	0	1	0	0	1	0	0	0	0	0	0	0	1	0	0	3	
43	0	0	1	3	0	0	0	2	0	0	0	0	0	0	0	0	0	6	
44	1	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
45	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	2	
46	0	0	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	3	
47	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	
48	0	0	1	1	0	0	0	1	0	0	0	0	0	0	0	2	0	5	
49	0	1	0	2	0	0	0	0	0	0	0	0	1	0	0	0	0	4	
50	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
51	0	0	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0	3	
52	0	2	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	4	
53	0	1	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	3	
≥ 55	0	0	1	3	1	0	0	0	0	0	0	1	0	0	0	0	0	6	
	1	6	14	37	3	3	6	16	3	3	1	5	1	2	10	1	112		

1. Shelikof 4. Barnabas 7. Geese Is. 11. Chiniak Bay 15. Inner Marmot 19. Marmot-Izhuut Bay
 2. Marmot offshore 5. Twoheaded 8. Sitskinak I. 12. Kiliuda Bay 17. Ugak Bay
 3. Chiniak offshore 6. Alitak Flats 10. Alitak Bay 13. Kupreanof-Viekoda 18. Southwest offshore

Appendix G.10. Yellowfin sole lengths (cms) from a trawl survey of the Kodiak area, 1996.

Length (cm)	Area Group																		Totals
	1	5	6	10	11	12	13	14	15	17	20	20	Totals						
13	0	0	0	0	1	0	0	0	0	0	0	0	1						
18	0	0	0	0	0	0	0	0	1	0	0	0	1						
19	0	0	0	0	0	0	0	0	2	0	0	0	0						
20	0	0	0	0	0	0	0	2	0	0	0	0	0						
21	0	0	0	0	1	0	4	0	0	0	0	0	0						
22	0	0	0	0	0	0	0	0	0	0	1	0	0						
23	0	0	0	2	0	0	1	1	0	1	0	0	0						
24	0	0	1	2	0	0	3	0	0	2	0	0	0						
25	0	0	0	1	5	0	4	2	1	4	0	0	0						
26	0	0	0	2	6	0	5	1	2	3	0	0	0						
27	0	1	0	5	1	0	8	1	2	14	0	0	32						
28	0	1	0	6	0	0	3	1	4	11	0	0	26						
29	0	1	0	6	4	0	5	1	7	9	2	0	35						
30	0	2	0	13	8	0	6	4	7	15	0	0	55						
31	0	5	3	11	7	0	9	4	5	13	2	0	59						
32	0	1	2	13	4	0	7	3	7	6	0	0	43						
33	0	9	1	23	11	0	6	3	8	4	2	0	67						
34	0	4	2	11	11	0	11	1	4	4	1	0	49						
35	0	8	2	6	14	2	4	4	2	5	1	0	48						
36	1	4	4	13	11	1	3	0	5	6	0	0	48						
37	0	2	6	5	10	1	5	0	4	0	0	0	33						
38	0	6	0	5	5	0	1	0	0	1	0	0	18						
39	0	0	2	1	4	0	0	0	0	0	1	0	8						
40	0	0	1	1	2	0	0	0	0	0	0	0	4						
41	1	1	1	0	3	1	0	0	0	2	0	0	9						
42	0	2	1	0	1	0	0	0	0	1	0	0	5						
43	0	0	1	1	1	0	0	0	0	0	0	0	3						
44	0	0	0	0	0	1	0	0	0	0	3	0	3						
45	0	0	0	0	1	0	0	0	0	1	0	0	2						
46	0	0	0	0	0	0	0	0	0	0	1	0	1						
	2	47	27	127	111	5	87	26	61	108	8	609							

Appendix G.11 Starry flounder lengths (cms) from a trawl survey of the Kodiak area, 1996.

Length (cm)	Area Group											Totals
	1	6	10	11	12	13	15	16	17	20	Totals	
16	0	0	0	0	0	0	0	0	1	0	1	
17	0	0	0	0	0	0	0	0	0	0	1	
36	0	0	0	0	0	0	1	0	0	0	1	
40	0	0	0	0	0	0	1	0	0	0	1	
41	0	0	0	0	0	1	1	0	0	0	2	
43	0	0	0	0	0	1	1	0	0	0	2	
44	0	0	0	0	0	1	0	0	0	0	1	
45	1	1	0	0	0	2	0	0	0	0	4	
46	0	0	0	0	1	0	2	0	0	0	3	
47	0	0	0	0	3	0	0	0	0	0	3	
48	0	0	0	0	0	0	1	0	0	0	1	
49	0	0	0	0	0	1	0	0	0	0	1	
50	0	0	1	0	0	0	0	0	0	0	1	
53	0	0	0	0	1	0	0	0	0	0	1	
54	0	0	0	0	1	0	0	0	0	0	1	
55	0	0	0	0	1	0	0	0	0	0	2	
56	0	1	0	0	0	0	0	0	0	0	1	
57	0	0	0	1	0	0	0	1	0	0	2	
59	0	0	0	0	1	0	0	0	0	0	1	
60	0	0	0	0	1	0	0	0	0	0	1	
61	0	0	0	0	1	0	0	0	0	0	1	
62	0	0	0	0	0	1	0	0	0	0	1	
	1	2	1	1	10	7	7	1	2	1	33	

1. Shelikof 10. Alitak Bay 12. Kiliuda Bay 15. Inner Marmot 17. Ugak Bay
 6. Alitak Flats 11. Chiniak Bay 13. Kupreanof-Viekoda 16. Malina-Raspberry 20. Uyak Bay

Appendix G.12 Alaska Plaice lengths from a trawl survey of the Kodiak area, 1996.

Length (cm)	Area Group											Totals
	1	5	6	10	11	13	14	15	16	20	Totals	
34	0	0	0	0	0	1	0	0	0	0	1	
35	0	0	0	0	0	2	0	0	0	0	2	
37	0	0	0	0	0	0	0	0	0	1	1	
38	0	1	1	1	0	0	0	0	0	0	3	
39	0	0	0	0	0	1	0	0	0	0	1	
40	1	0	0	1	0	0	0	0	1	0	3	
41	1	0	1	0	0	0	0	0	0	0	2	
42	0	0	1	1	0	0	0	0	0	1	3	
43	1	0	0	0	0	0	0	0	0	0	1	
44	0	0	1	0	0	1	0	0	0	0	2	
46	0	0	1	0	1	0	0	0	0	0	2	
47	0	0	0	1	0	0	0	1	0	0	2	
48	0	0	0	1	0	0	0	0	0	0	1	
49	1	0	0	0	0	1	1	0	0	0	3	
50	2	1	0	0	1	0	0	0	1	0	5	
52	0	0	0	0	0	0	1	0	0	0	1	
53	1	0	0	0	0	0	0	0	0	0	1	
54	0	0	0	0	0	0	1	0	0	0	1	
55	1	0	0	0	0	0	0	0	0	0	1	
57	0	0	0	0	1	0	0	0	0	0	1	
58	0	0	0	1	0	0	0	0	0	0	1	
60	0	0	0	0	1	0	0	0	0	0	1	
61	1	0	0	0	0	0	0	0	0	0	1	
	9	2	5	6	4	6	3	2	1	2	40	

1. Shelikof 10. Alitak Bay 14. Uganik Bay 20. Uyak Bay
 5. Twoheaded 11. Chiniak Bay 15. Inner Marmot
 6. Alitak Flats 13. Kupreanof-Viekoda 16. Malina-Raspberry

Appendix G.13. Sablefish lengths (cms) from a trawl survey of the Kodiak area, 1996.

Length (cm)	Area Group													Totals
	1	2	4	5	6	10	11	12	13	14	16	18	20	
≤ 33	0	0	0	0	0	0	0	0	4	0	0	0	0	4
36	0	0	0	0	1	0	0	0	3	0	0	0	0	4
37	0	0	0	0	0	0	0	0	5	1	0	0	0	6
38	0	0	0	0	0	0	0	0	4	4	0	0	1	9
39	0	0	0	0	0	0	0	0	2	2	0	0	0	4
40	0	0	0	0	0	0	0	0	0	1	1	0	0	2
41	0	0	0	0	0	0	0	0	0	3	0	0	0	3
42	0	0	0	0	0	0	0	1	0	2	0	0	0	3
43	0	0	0	0	0	0	0	0	1	0	0	0	0	1
44	0	0	0	0	0	0	0	0	0	1	0	0	0	1
45	0	0	2	0	0	0	0	1	0	0	0	0	0	3
47	0	0	2	1	0	1	0	1	1	0	0	0	0	6
49	0	0	2	1	0	1	0	0	0	0	0	0	0	4
50	1	0	0	0	0	1	0	0	0	0	0	0	0	2
51	0	0	1	0	0	0	0	0	0	0	0	1	0	2
52	0	0	0	0	0	0	0	0	0	1	0	0	0	1
53	0	0	0	0	0	1	0	0	0	0	0	0	0	1
54	0	0	3	0	0	0	0	0	0	0	0	0	0	3
55	0	0	1	0	0	0	0	0	0	0	0	0	0	2
56	0	0	2	0	0	0	0	0	0	0	0	0	0	2
58	0	0	1	0	0	0	0	0	0	0	0	0	0	1
59	0	0	0	0	0	0	0	0	0	0	0	3	0	3
60	0	0	2	0	0	0	0	0	0	0	0	0	0	4
61	0	0	5	0	0	0	0	0	0	0	0	0	0	7
62	0	0	3	0	0	0	1	0	0	0	0	2	0	6
63	0	0	3	0	0	0	1	0	0	0	0	6	0	10
64	0	0	0	0	0	0	0	0	0	0	0	1	0	1
65	0	3	2	0	0	0	0	0	0	0	0	3	0	8
66	0	0	3	0	0	0	0	0	0	0	0	0	0	3
67	0	0	1	0	0	0	0	0	0	0	0	0	0	1
68	1	0	2	0	0	0	0	0	0	0	0	1	0	4
69	0	1	0	0	0	0	0	0	0	0	2	0	0	3
≥ 70	0	5	4	0	0	0	1	0	0	0	0	1	0	11
	2	9	39	2	1	4	3	3	21	14	1	24	2	125

Appendix G.14. Butter sole lengths from a trawl survey of the Kodiak area, 1996.

Length (cm)	Number of Fish												Totes
	3	4	5	6	7	8	10	11	12	17			
≤ 12	1	4	0	0	0	0	0	0	0	0	0	0	1
13	0	2	0	0	0	0	0	0	0	0	0	0	2
14	0	2	0	0	0	0	0	0	0	0	0	0	2
15	0	1	0	0	0	0	0	0	0	0	0	0	1
16	0	3	0	0	0	0	0	0	0	0	0	0	3
17	0	4	0	0	0	0	0	0	0	0	0	0	4
18	0	1	0	0	0	0	0	0	0	0	0	0	1
19	0	2	0	0	0	0	1	0	0	0	0	0	3
20	1	2	0	0	0	0	1	0	0	0	0	0	4
21	0	2	0	0	0	0	1	0	0	0	0	0	3
22	0	0	0	0	0	0	2	0	0	0	0	0	2
23	0	1	0	1	0	1	1	0	0	0	0	0	4
24	0	3	0	0	0	1	1	0	0	0	3	8	
25	1	3	0	0	0	2	0	0	0	0	0	0	6
26	0	5	0	1	0	1	0	0	0	0	3	10	
27	0	2	0	0	0	1	0	0	0	0	0	0	3
28	1	4	0	0	0	1	0	0	0	0	2	8	
29	1	2	0	0	1	1	1	0	0	0	2	8	3. Chiniak offshore
30	2	3	0	2	0	0	1	1	0	0	0	9	4. Bamabas
31	4	2	0	0	0	0	1	0	0	0	4	11	5. Twoheaded
32	1	2	0	1	0	0	4	4	1	1	1	14	6. Alitak Flats
33	4	1	6	3	0	0	2	3	0	3	0	22	7. Geese Islands
34	4	2	3	2	0	0	1	2	1	6	21	8. Sitkinak Island	
35	3	1	6	0	0	0	4	3	0	7	24	10. Alitak Bay	
36	0	0	3	2	1	0	1	1	0	9	17	11. Chiniak Bay	
37	1	1	5	3	0	0	1	0	0	6	17	12. Kiluda Bay	
38	3	0	3	1	0	0	0	1	0	7	15	17. Ugak Bay	
39	0	0	1	3	1	0	1	0	1	4	11		
≥ 40	0	0	7	1	3	2	0	0	0	3	16		
	27	55	34	20	6	10	24	15	3	60	250		

Appendix G.15 Pacific cod lengths by area from a trawl survey of the Kodiak area, 1996.

Length (cm)	Area Group																				Totals
	1	2	3	4	5	6	7	8	10	11	12	13	14	15	16	17	18	19	20		
≤25	4	0	0	0	0	0	2	0	0	32	0	0	0	0	0	0	0	0	0	0	38
26	0	0	0	0	0	0	0	0	2	2	0	0	1	0	0	0	0	0	0	0	5
27	4	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	7
28	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3
29	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
30	1	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	1	0	0	0	4
31	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
32	0	0	0	1	0	0	0	0	1	2	0	0	2	0	0	0	0	0	0	0	6
33	2	0	0	0	0	0	0	0	0	1	0	0	2	0	0	0	0	0	0	0	5
34	4	0	0	0	0	0	0	0	4	0	0	0	2	0	0	0	0	0	0	0	10
35	2	0	2	2	0	0	0	0	3	0	0	0	2	0	0	0	1	0	0	0	12
36	0	0	4	5	0	0	0	0	0	2	0	0	1	1	0	0	0	0	0	1	14
37	1	0	3	2	0	1	0	0	1	1	0	0	4	2	0	5	0	1	1	1	22
38	0	0	2	4	0	0	1	0	1	2	0	0	1	0	0	2	0	0	1	1	14
39	3	0	5	5	0	0	0	0	3	2	0	0	7	0	0	1	0	0	0	0	26
40	6	1	1	10	0	0	1	0	1	3	0	5	1	2	0	6	0	0	0	0	37
41	2	0	7	12	0	0	3	0	3	3	0	3	3	5	0	2	0	0	0	1	44
42	7	2	11	16	1	0	0	0	2	4	1	6	7	5	0	5	0	0	0	3	70
43	5	0	6	10	0	0	4	0	4	3	3	1	4	6	0	3	0	2	1	1	52
44	16	0	10	14	1	0	4	1	2	6	2	6	5	7	0	8	1	0	1	1	84
45	10	2	8	10	2	0	1	1	1	9	4	10	6	4	0	8	0	4	2	2	82
46	9	1	6	14	0	2	5	1	2	7	5	7	6	3	0	3	0	0	0	0	71
47	8	2	2	21	2	0	6	0	0	11	4	1	3	7	0	6	0	1	2	2	76
48	7	1	6	17	1	0	1	0	2	13	7	4	6	7	0	3	0	2	2	2	79
49	9	0	3	17	1	0	2	3	0	13	5	2	4	2	0	4	0	0	0	0	65
50	3	0	4	9	4	0	5	2	0	9	6	4	5	2	0	1	0	1	2	2	57
51	2	1	2	11	3	0	0	1	2	5	5	0	2	3	0	2	1	0	1	1	41
52	3	0	2	3	4	0	2	1	0	4	8	2	3	1	0	1	0	1	0	0	35
53	1	1	0	5	2	1	1	0	2	3	4	1	0	0	0	1	0	0	1	1	23
54	1	1	0	4	1	1	1	2	1	1	1	1	5	0	0	3	1	0	1	1	25
55	3	0	1	3	1	0	1	2	2	3	0	3	1	0	0	0	1	0	0	0	21
56	1	1	1	2	3	0	0	0	2	0	0	0	5	2	0	2	0	1	1	1	21
57	3	2	0	3	4	1	3	1	1	3	1	5	7	1	0	0	1	0	0	0	36
58	3	3	3	9	2	1	3	1	4	1	1	1	6	3	0	1	1	1	0	0	44
59	5	3	1	4	7	0	0	1	2	0	5	4	4	5	1	2	0	0	0	0	44
60	4	3	3	10	9	1	2	2	4	2	4	4	5	2	0	0	1	3	0	0	59
61	5	1	3	10	7	1	8	2	1	2	2	3	7	2	0	1	1	2	0	0	58
62	5	1	4	8	9	2	6	4	6	4	0	4	6	2	0	1	0	2	1	1	65
63	7	4	2	5	7	0	4	4	0	6	2	2	7	2	2	1	1	0	0	1	55
64	9	4	5	15	9	3	4	3	3	4	4	3	9	3	1	2	2	2	2	2	87
65	5	6	3	12	9	1	12	2	4	6	4	0	5	7	2	2	0	1	5	86	
66	7	5	7	14	6	0	7	4	2	5	7	3	3	2	1	2	1	5	2	83	
67	8	4	7	12	10	6	5	1	3	3	5	5	3	6	1	0	3	2	1	85	
68	4	4	2	16	11	3	3	2	3	5	6	1	5	3	1	0	0	4	1	74	
69	4	5	5	14	18	4	10	3	3	4	6	0	11	1	1	3	2	3	3	100	
70	1	3	4	11	9	3	4	3	3	4	6	1	2	2	0	1	2	5	2	66	
71	3	0	5	16	12	0	2	5	2	7	6	2	2	2	1	2	3	4	0	74	
72	3	0	2	7	9	3	1	2	3	6	6	2	3	0	1	1	2	4	0	55	
73	3	3	3	7	11	1	2	0	2	6	5	1	2	3	0	2	1	9	2	63	
74	1	2	2	6	12	2	0	1	3	4	4	0	1	5	0	3	1	3	3	53	
75	1	3	0	4	10	2	1	0	1	1	5	0	2	4	1	1	0	2	0	38	
76	0	0	1	5	9	1	2	3	4	1	4	0	1	2	0	2	1	1	0	37	
77	0	2	2	5	3	1	2	1	4	2	2	0	1	1	1	3	1	1	0	32	
78	1	2	2	3	5	0	0	0	2	3	2	0	1	4	0	1	0	3	0	29	
79	0	0	6	3	1	1	1	1	2	2	0	0	0	0	0	0	1	1	0	19	
80	0	0	0	1	7	1	0	0	0	2	1	0	0	1	0	1	0	0	0	14	
81	1	0	0	0	1	0	0	1	0	1	3	1	0	0	0	2	2	1	0	13	
82	0	0	0	1	5	0	0	1	1	1	1	0	0	0	0	0	0	0	0	10	
83	0	0	0	1	4	0	3	0	0	1	0	0	0	0	0	0	0	0	0	9	
84	0	1	0	1	2	0	0	0	0	2	0	0	1	0	0	0	1	0	0	8	
85	0	0	1	1	4	0	0	0	0	2	0	0	0	0	0	0	0	0	0	8	
86	0	0	0	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	
87	0	0	1	0	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	3	
88	0	0	0	0	2	0	1	0	0	1	0	0	0	2	0	0	0	0	0	6	
89	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	
90	0	1	3	2	1	0	1	1	0	0	0	0	1	0	0	2	0	0	0	12	

- 1. Shelikof
- 5. Twoheaded
- 10. Alitak Bay
- 14. Uganik Bay
- 18. Southwest offshore
- 2. Marmot offshore
- 6. Alitak Flats
- 11. Chiniak Bay
- 15. Inner Marmot
- 19. Marmot-Izhut Bay
- 3. Chiniak offshore
- 7. Geese Islands
- 12. Kiliuda Bay
- 16. Malina-Raspberry
- 20. Uyak Bay
- 4. Barnabas
- 8. Sitkinak Island
- 13. Kupreanof-Viekoda
- 17. Ugak Bay

Appendix G.16. Pollock lengths by area from a trawl survey of the Kodiak area, 1996.

Length (cm)	Area Group																				Totals
	1	2	3	4	5	6	7	10	11	12	13	14	15	16	17	18	19	20			
9	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1	
10	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
12	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	4	
13	0	0	0	0	0	0	0	0	0	0	0	9	0	9	0	0	0	0	0	18	
14	0	0	0	0	0	0	0	0	0	0	0	4	0	7	0	0	0	0	0	11	
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	
18	0	0	0	0	0	0	0	0	0	0	0	5	0	0	0	0	0	0	0	5	
19	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
20	0	0	0	0	0	0	0	0	0	0	0	4	0	0	0	0	0	0	0	4	
21	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	2	
22	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	2	
23	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	2	
24	0	1	0	0	0	3	0	0	0	0	0	1	0	0	0	0	0	0	0	5	
25	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
26	0	0	0	0	0	1	0	1	0	0	0	1	0	0	0	0	0	0	0	3	
27	0	0	0	0	0	0	0	6	0	0	0	1	0	0	0	0	0	0	0	7	
28	0	0	0	0	0	1	0	9	0	0	0	0	0	0	0	0	0	0	0	10	
29	0	0	0	0	0	0	0	0	11	0	0	0	0	0	0	0	0	0	0	11	
30	0	1	0	0	0	0	0	0	3	0	1	0	0	0	0	0	0	0	0	5	
31	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0	0	0	0	3	
32	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
33	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	2	
34	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
38	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	
39	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	
40	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	0	0	2	
41	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
42	0	0	0	0	0	1	0	1	0	0	0	0	1	0	0	1	0	0	0	4	
43	0	0	0	0	0	0	0	2	0	0	0	0	1	0	0	1	0	1	0	5	
44	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	3	
45	1	0	0	0	0	1	0	0	0	0	0	0	0	0	0	2	0	0	0	5	
46	1	0	0	1	2	0	0	2	0	0	0	0	0	0	0	0	0	0	0	6	
47	1	0	0	3	1	0	0	3	0	1	0	0	0	0	0	0	1	1	0	11	
48	0	0	0	2	1	2	0	5	0	1	0	0	1	0	0	1	0	2	0	15	
49	0	0	2	2	4	5	0	5	0	0	1	0	0	0	0	1	1	0	0	21	
50	1	0	3	7	3	5	0	5	1	0	0	2	3	0	1	3	0	1	0	35	
51	2	0	2	11	1	7	0	4	1	0	5	3	0	2	0	1	1	0	0	40	
52	3	0	5	7	6	8	0	14	0	2	6	2	0	1	1	5	1	1	1	62	
53	4	1	4	10	6	5	0	4	1	0	3	2	0	1	1	2	0	1	1	45	
54	4	0	3	9	6	11	1	6	1	0	4	2	0	0	2	4	1	7	61		
55	0	0	7	10	7	14	1	5	0	1	6	2	1	0	1	5	0	4	64		
56	2	3	8	8	5	4	0	3	0	0	4	1	2	0	1	3	0	3	0	47	
57	2	1	2	12	6	5	0	2	0	2	1	2	4	1	1	0	1	1	0	43	
58	2	0	3	7	1	5	1	5	1	0	0	0	2	0	1	3	0	1	0	32	
59	2	1	1	5	2	4	0	2	1	0	0	1	3	0	1	0	2	0	0	25	
60	0	2	2	8	2	5	0	2	0	1	0	0	1	0	0	0	0	0	0	23	
61	2	2	0	2	3	0	0	2	0	3	1	1	1	0	1	0	0	0	0	18	
62	0	0	1	2	1	0	0	3	0	2	0	0	2	0	1	0	0	0	0	12	
63	0	0	0	0	1	0	1	0	0	0	1	1	0	2	2	0	0	0	0	8	
64	1	0	0	1	1	0	0	0	0	1	0	1	0	0	1	0	0	0	1	7	
65	0	0	0	2	0	0	0	4	0	1	0	1	1	0	1	0	0	0	0	10	
66	0	1	0	0	0	0	0	1	0	0	0	1	0	0	2	0	0	1	0	6	
67	0	0	0	3	0	0	0	0	0	0	1	1	0	0	0	0	1	0	0	6	
68	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	3	
69	0	0	0	1	0	0	0	1	0	3	0	0	0	0	0	0	0	0	0	5	
70	1	0	0	0	1	0	0	0	0	0	0	0	3	0	0	0	0	0	0	5	
71	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1	
72	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1	
73	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	

- 1. Shelikof
- 2. Marmot offshore
- 3. Chinlak offshore
- 4. Barnabas
- 5. Twoheaded
- 6. Alitak Flats
- 7. Geese Islands
- 8. Sitkinak Island
- 10. Alitak Bay
- 11. Chiniak Bay
- 12. Kiliuda Bay
- 13. Kupreanof-Viekoda
- 14. Uganik Bay
- 15. Inner Marmot
- 16. Malina-Raspberry
- 17. Ugak Bay
- 18. Southwest offshore
- 19. Marmot-Izhut Bay
- 20. Uyak Bay

Appendix G.17 Rougheye rockfish lengths by area from a trawl survey of the Kodiak area, 1996.

Length (cm)	Area Group															Totals
	1	2	4	5	6	7	10	11	12	14	15	17	18	19		
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1
12	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1
13	0	0	0	0	0	0	0	1	0	0	0	0	0	0	1	2
15	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
16	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
17	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
18	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	1
19	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
20	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
21	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
22	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
23	2	0	5	0	0	0	0	1	0	0	0	0	0	0	0	8
24	2	0	7	0	0	0	0	0	0	0	0	0	0	0	0	9
25	4	0	8	0	0	0	0	0	1	0	0	0	0	0	0	13
26	4	0	7	0	0	0	0	0	0	0	0	0	0	2	1	14
27	4	1	1	0	0	1	0	0	0	0	0	0	0	0	0	7
28	2	0	7	2	0	2	0	0	0	0	0	0	0	1	0	14
29	2	0	5	0	0	0	0	0	0	0	0	0	0	1	0	8
30	3	0	5	0	0	2	0	0	1	1	0	0	0	0	1	13
31	2	0	7	3	0	0	0	1	0	0	0	0	0	0	2	15
32	2	0	8	5	0	1	0	0	1	0	0	0	1	1	1	20
33	4	0	6	4	0	1	0	3	0	0	0	0	1	1	4	24
34	5	1	10	2	0	3	0	0	3	0	0	0	1	2	2	29
35	1	0	4	5	0	2	0	1	1	0	0	0	0	0	0	14
36	3	0	8	3	0	0	0	1	0	0	0	0	1	0	0	16
37	2	1	4	5	0	1	0	2	1	0	0	0	0	0	0	16
38	1	1	7	0	0	2	0	1	0	0	0	1	0	0	0	13
39	3	0	7	2	0	4	0	1	0	0	0	0	0	4	1	22
40	3	0	3	3	0	1	1	1	0	0	0	0	0	0	0	12
41	5	0	9	2	0	2	0	0	0	0	0	0	0	5	1	24
42	3	0	8	0	0	1	0	1	1	0	0	0	0	4	2	20
43	2	0	7	0	0	0	0	0	1	0	0	0	0	1	0	11
44	3	0	4	1	0	0	0	0	0	0	0	0	0	1	0	9
45	3	0	4	0	0	0	0	0	0	0	0	0	0	2	0	9
46	3	0	1	0	0	2	0	0	0	0	0	0	0	7	0	13
47	0	0	0	0	0	1	0	0	0	0	0	0	0	1	0	2
48	0	0	1	0	0	1	0	0	0	0	0	0	0	2	0	4
49	2	0	0	0	0	0	0	0	0	0	0	0	0	2	0	4
50	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
52	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
54	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	2
63	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
84	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
68	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1

- 1. Shelikof
- 2. Marmot offshore
- 4. Barnabas
- 5. Twoheaded
- 6. Alitak Flats
- 7. Geese Islands
- 10. Alitak Bay
- 11. Chiniak Bay
- 12. Kiliuda Bay
- 14. Uganik Bay
- 15. Inner Marmot
- 17. Ugak Bay
- 18. Southwest offshore
- 19. Marmot-Izhut Bay

Appendix G.18. Northern rock sole lengths from a trawl survey of the Kodiak area, 1996.

Length (cm)	Area Group											Totals
	5	6	7	8	11	12	13	14	17	Totals		
12	0	0	0	0	1	0	0	0	0	1		
13	0	0	0	0	1	0	0	0	0	1		
16	0	0	0	0	3	0	0	0	0	3		
17	0	1	0	0	2	0	0	0	0	3		
18	0	0	0	0	2	0	0	0	0	2		
19	0	0	0	0	2	0	0	0	0	2		
20	0	0	0	0	3	0	0	0	0	3		
21	0	0	0	0	1	1	0	0	0	2		
24	0	0	0	0	1	0	0	0	0	1		
25	0	0	0	0	1	0	0	0	0	1		
26	0	0	0	0	1	0	0	0	0	1		
27	0	0	0	0	2	0	0	0	0	2		
29	0	0	0	0	0	0	1	0	0	1		
31	0	0	0	1	3	0	0	0	1	5		
32	0	0	0	0	1	0	1	0	0	2		
33	0	0	0	1	7	0	0	0	0	8		
34	0	0	0	1	6	0	0	1	0	8		
35	0	0	0	0	5	0	0	1	1	7		
36	0	0	0	0	2	0	0	0	0	2		
37	1	0	0	0	2	0	1	0	1	5		
38	0	0	0	0	5	1	1	0	1	8		
39	0	0	0	0	0	0	1	0	0	1		
40	0	0	1	1	6	0	0	0	0	8		
41	0	0	0	0	0	0	0	0	1	1		
42	0	0	0	0	1	0	0	0	0	1		
43	0	0	0	0	0	1	0	0	0	1		
44	1	0	0	0	0	0	0	0	0	1		
45	0	0	0	1	1	0	0	0	0	2		
46	1	0	0	0	0	0	0	0	0	1		
48	1	0	0	0	0	0	0	0	0	1		
	4	1	1	5	59	3	5	2	5	85		

- 5. Twoheaded
- 6. Alitak Flats
- 7. Geese Islands
- 8. Sitkinak Island
- 11. Chinlak Bay
- 12. Killuda Bay
- 13. Kupreanof-Viekoda
- 14. Uganik Bay
- 17. Ugak Bay

Appendix G.19. Southern rock sole lengths by area from a trawl survey of the Kodiak area, 1996.

Length (cm)	Area Group											Totals
	1	3	4	7	10	11	13	14	17	Totals		
≤ 15	0	0	16	0	0	0	7	0	0	23		
16	0	0	5	0	0	0	0	0	0	5		
17	0	0	3	0	0	0	0	0	0	3		
18	0	0	1	0	0	0	3	0	1	5		
19	0	0	1	0	0	0	4	0	0	5		
20	0	0	2	0	0	0	2	0	0	4		
21	0	0	4	0	0	0	1	0	1	6		
22	0	0	2	0	0	0	2	0	0	4		
23	1	0	1	0	0	0	0	0	1	3		
24	0	0	1	0	0	0	1	0	0	2		
25	0	0	0	0	1	0	2	0	1	4		
26	0	0	0	0	0	0	0	0	1	1		
27	0	0	0	1	0	0	1	0	0	2		
28	0	0	1	0	0	0	1	0	0	2		
30	0	0	1	1	0	0	0	0	1	3		
32	0	0	3	2	0	0	0	1	0	6		
33	0	0	1	1	0	0	0	0	0	2		
34	0	0	1	2	0	1	0	0	0	4		
35	0	1	4	1	0	0	0	0	0	6		
36	0	0	2	2	0	0	0	0	1	5		
37	0	0	1	2	0	0	0	0	1	4		
38	0	0	4	0	0	0	0	0	1	5		
39	0	0	2	3	0	1	0	0	0	6		
40	0	0	0	1	0	0	0	0	0	1		
41	0	2	0	0	0	0	0	0	1	3		
42	0	1	3	0	0	0	0	0	2	6		
43	0	1	2	0	0	0	0	0	0	3		
44	0	1	1	0	0	0	0	0	0	2		
45	0	0	2	0	0	0	0	0	0	2		
46	0	0	2	0	0	0	0	0	0	2		
47	0	1	0	0	0	0	0	0	0	1		
48	0	0	0	1	0	0	0	0	0	1		
	1	7	66	17	1	2	24	1	12	131		

- 1. Shelikol
- 3. Chinlak offshore
- 4. Bamabas
- 7. Geese Islands
- 10. Alitak Bay
- 11. Chiniak Bay
- 13. Kupreanof-Viekoda
- 14. Uganik Bay
- 17. Ugak Bay

Appendix G.20. Lengths of sharpshin, red-banded, yellowtail, northern, and dusky rockfish, sand sole, herring, Pacific Ocean Perch, shortspine thornyhead and Atka Mackerel taken during a trawl survey of the Kodiak area, 1996. Also taken were a chum salmon at 66 cms, lingcod at 87 and 93 cms, and a bocaccio rockfish at 52 cms.

Length (cm)	sharpshin rockfish	red-banded rockfish	sand sole	herring	Pacific Ocean Perch	Yellowtail Rockfish	Northern Rockfish	Redstripe Rockfish	Dusky Rockfish	Shortspine Thornyhead	Atka Mackerel
12	0	0	0	0	0	0	1	0	0	0	0
13	0	0	0	0	0	0	0	0	1	0	0
14	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	2	0
16	0	0	0	0	0	0	0	0	0	2	0
17	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	1	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	2	0
21	0	1	0	1	0	0	0	0	0	6	0
22	0	0	0	0	0	0	1	1	1	5	0
23	0	0	0	2	0	0	1	0	1	3	0
24	0	0	0	1	1	0	3	0	3	0	0
25	0	0	0	2	1	0	1	0	3	0	0
26	0	0	0	1	0	0	0	0	0	3	0
27	0	0	0	3	1	0	0	0	2	2	0
28	0	0	0	1	0	0	0	0	0	0	0
29	1	0	0	1	0	0	0	0	0	1	0
30	0	1	0	3	0	0	0	0	4	0	0
31	0	1	0	0	0	1	0	0	2	0	0
32	1	0	0	0	1	0	0	0	6	0	0
33	0	0	0	0	0	0	1	0	3	0	0
34	0	0	0	0	1	0	2	0	1	0	0
35	0	2	0	0	2	0	2	0	4	0	0
36	0	0	0	0	0	0	2	0	3	0	0
37	0	0	1	0	0	0	6	1	3	0	1
38	0	1	0	0	1	0	0	0	3	0	0
39	0	2	0	0	0	0	0	0	4	0	0
40	0	0	0	0	0	0	0	0	4	0	0
41	0	0	0	0	0	0	0	0	8	0	0
42	0	0	0	0	0	0	0	0	6	0	0
43	0	0	0	0	0	0	0	0	5	0	0
44	0	0	0	0	0	0	0	0	5	0	0
45	0	0	0	0	0	0	0	0	3	0	0
46	0	0	0	0	0	0	0	0	6	0	0
47	0	0	0	0	0	0	0	0	1	0	0
48	0	0	0	0	0	0	0	0	2	0	0
	2	8	1	16	8	1	20	2	84	26	1

Appendix H. Numbers of Tanner crab per 1.85 km (1 nautical mile) in the South Peninsula Management District
with population index by area.

Station	Tow	Females			Sublegal Males				Recruit	Postrecruit		Total Legal	Total Male	Total Crab
		#	Juv	Adult	Total	<70	70-91	92-114		<165	>164			
SANAK ISLAND														
113	194	29	1	30	8	2	0	0	0	0	0	0	10	40
125	195	33	5	38	38	9	1	0	0	0	0	0	48	86
126	196	46	1	47	41	1	0	1	0	0	0	0	43	90
138A	197	25	2	27	12	1	1	2	0	0	0	0	16	43
138B	198	6	0	6	6	0	0	1	0	0	0	0	7	13
138C	199	12	36	48	3	1	5	11	0	0	0	0	20	68
137	200	29	4	33	23	2	3	0	0	0	0	0	28	61
Population estimate		579,289	134,287	713,576	433,898	53,476	29,469	36,368	0	0	0	0	553,211	1,266,787
MORZHOOVI BAY														
87B	189	0	1	1	0	0	2	1	0	0	0	0	4	5
87A	190	2	2	4	4	0	1	1	0	0	0	0	6	10
87C	191	0	0	0	0	0	0	0	0	0	0	0	0	0
87D	192	2	0	2	1	0	1	0	0	0	0	0	2	4
98C	193	1	0	1	2	0	0	0	0	0	0	0	2	3
MOP	201	0	6	6	3	0	0	6	0	3	0	3	12	18
MOK	202	25	3	28	15	14	0	3	0	1	0	1	33	61
MOH	203	11	2	13	6	1	2	3	0	0	0	0	12	25
MOL	204	2	3	5	1	0	1	1	4	0	0	4	7	12
MOI	205	12	3	15	3	2	1	0	0	0	0	0	6	21
MOG	206	22	0	22	20	2	2	2	0	0	0	0	26	48
MOF	207	22	0	22	28	1	1	0	0	0	0	0	30	52
MOD	208	6	0	6	12	1	0	0	0	0	0	0	13	19
MOB	209	0	0	0	2	0	0	0	0	0	0	0	2	2
MOC	210	0	0	0	0	0	0	0	0	0	0	0	0	0
MOJ	211	1	1	2	1	0	0	0	0	0	0	0	1	3
MON	212	5	0	5	5	0	0	0	0	0	0	0	5	10
MOU	213	2	0	2	0	0	0	0	0	0	0	0	0	2
MOV	214	47	0	47	36	0	0	0	0	0	0	0	36	83
MOR	215	3	0	3	10	0	0	0	0	0	0	0	10	13
MOS	216	16	0	16	13	0	0	0	0	0	0	0	13	29

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Appendix H. (Page 2 of 5)

Station	Tow #	Females			Sublegal Males				Recruit	Postrecruit		Total Legal	Total Male	Total Crab
		Juv	Adult	Total	<70	70-91	92-114	>114		<165	>164			
MOO	217	5	89	94	2	3	4	36	2	27	0	29	74	168
Population estimate		221,620	107,996	329,616	191,235	22,344	14,476	53,533	5,696	31,185	0	36,881	318,471	648,086
COLD BAY/BELKOFSKI														
BEG	218	1	0	1	2	0	0	1	0	0	0	0	3	4
156A	219	79	4	83	68	0	0	0	0	0	0	0	69	152
BEA	220	0	0	0	1	0	0	0	0	0	0	0	1	1
BEB	221	20	0	20	13	0	0	0	0	0	0	0	13	33
BED	222	2	0	2	4	0	0	0	0	0	0	0	4	6
BEC	223	0	0	0	0	0	0	0	0	0	0	0	0	0
BEE	224	1	0	1	0	0	0	0	0	0	0	0	0	1
BEF	225	48	1	49	44	2	0	1	0	0	0	0	47	96
157A	226	18	0	18	23	0	0	0	0	0	0	0	23	41
145B	227	3	0	3	0	0	0	0	0	0	0	0	0	3
COO	228	7	2	9	0	0	0	5	2	2	0	4	9	18
132A	229	0	0	0	2	0	0	0	0	0	0	0	2	2
COM	230	6	0	6	14	0	0	1	0	0	0	0	16	21
COGA	231	36	2	39	25	1	2	14	36	1	0	37	80	119
COH	232	11	0	11	10	1	0	0	0	0	0	0	11	23
COGB	233	30	0	30	17	2	10	21	22	0	1	24	75	105
COB	234	3	0	3	1	0	0	0	0	0	0	0	1	4
COC	235	3	0	3	7	0	0	0	0	0	0	0	7	10
COE	236	74	4	78	28	64	40	13	3	0	0	3	148	226
COF	237	11	0	11	10	0	0	2	0	0	0	0	12	24
COJ	238	1	0	1	0	0	0	0	0	0	0	0	0	1
Population estimate		339,068	15,337	354,406	266,412	62,717	40,124	30,565	24,165	2,530	201	26,896	426,715	781,120
PAVLOF/VOLCANO BAYS														
VOL	239	15	0	15	9	0	0	0	0	0	0	0	9	24
VOO	240	7	6	13	3	0	1	8	3	0	0	3	15	28
VOP	241	29	1	30	30	4	1	3	0	0	0	0	39	69
VOMA	242	4	0	4	5	1	0	0	0	0	0	0	6	10
VOFA	243	4	0	4	2	4	0	0	0	0	0	0	6	10

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Appendix H. (Page 3 of 5)

Station	Tow #	Females			Sublegal Males				Recruit	Postrecruit		Total Legal	Total Male	Total Crab
		Juv	Adult	Total	<70	70-91	92-114	>114		<165	>164			
VOFB	244	2	0	2	2	0	0	0	0	0	0	0	2	4
VOG	245	0	4	4	1	1	0	3	0	4	0	4	9	13
VOMB	246	2	0	2	2	0	0	0	0	0	0	0	2	4
VON	247	14	2	16	17	3	0	5	4	0	1	5	30	46
VOR	248	6	0	6	10	1	0	0	0	0	0	0	11	17
VOQ	249	38	0	38	28	2	0	0	0	0	0	0	30	68
VOH	250	21	3	24	16	7	1	0	1	0	0	1	26	50
VOI	251	10	1	11	15	0	1	1	1	0	0	1	18	29
VOJ	252	1	7	9	1	0	0	0	0	0	0	0	1	10
VOD	253	15	3	18	17	2	3	2	0	0	0	0	24	42
VOC	254	2	10	12	1	0	0	4	0	5	0	5	10	22
VOB	255	3	1	4	6	1	0	2	0	0	0	0	9	13
VOA	256	9	0	9	8	1	0	0	0	0	0	0	9	18
PAU	257	25	15	40	21	14	15	22	5	1	0	6	78	118
PARA	258	11	0	11	3	1	0	0	0	0	0	0	4	15
PAQA	259	6	0	6	9	1	0	0	0	0	0	0	10	16
PAH	260	3	0	3	1	0	0	0	0	0	0	0	1	4
PAI	261	0	0	0	0	0	0	0	0	0	0	0	0	0
PAE	262	0	0	0	0	0	0	0	0	0	0	0	0	0
PAB	263	0	0	0	2	0	0	0	0	0	0	0	2	2
PAC	264	0	0	0	0	0	0	0	0	0	0	0	0	0
PAF	265	2	0	2	0	0	0	0	0	0	0	0	0	2
PAJ	266	0	0	0	0	0	0	0	0	0	0	0	0	0
PAM	267	32	0	32	28	0	0	0	0	0	0	0	28	60
PAQ	268	2	0	2	0	0	0	0	0	0	0	0	0	2
PAS	269	2	0	2	0	0	0	0	0	0	0	0	0	2
PAP	270	1	0	1	2	0	0	0	0	0	0	0	2	3
PAL	271	0	0	0	0	0	0	0	0	0	0	0	0	0
PAOB	272	6	0	6	12	6	3	0	0	0	0	0	21	27
PARB	273	5	9	14	3	2	6	12	4	0	0	4	27	41
PAU	274	18	0	18	19	4	1	1	0	0	0	0	25	43
PAWA	275	3	0	3	2	0	0	0	0	0	0	0	2	5
VOE	276	0	0	0	0	0	0	0	0	0	0	0	0	0
228	277	4	0	4	2	0	1	0	0	0	0	0	3	7
245	278	37	1	38	36	0	1	1	0	0	0	0	38	76

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Appendix H. (Page 4 of 5)

Station	Tow #	Females			Sublegal Males				Recruit	Postrecruit		Total Legal	Total Male	Total Crab
		Juv	Adult	Total	<70	70-91	92-114	>114		<165	>164			
	Population estimate	391,494	55,285	446,780	367,493	40,122	31,041	52,307	14,841	9,517	992	25,350	516,312	963,092
BEAVER/ BALBOA / UNGA														
121	278	279	2	0	2	1	0	1	0	0	0	0	2	4
	312A	280	0	0	0	0	0	0	0	0	0	0	0	0
	BVC	281	0	0	0	0	0	0	0	0	0	0	0	0
	BVA	282	0	0	0	0	0	0	0	0	0	0	0	0
	BVB	283	0	0	0	0	0	0	0	0	0	0	0	0
	BVD	284	0	0	0	0	0	0	0	0	0	0	0	0
	311B	285	137	1	138	142	5	2	0	1	0	0	150	288
	329C	286	81	0	81	97	4	0	1	0	0	0	102	183
	BAF	287	3	0	3	0	0	0	0	0	0	0	0	3
	BAE	288	55	3	58	69	0	0	2	0	0	0	71	129
	BAA	289	1	0	1	0	0	0	0	0	0	0	0	1
	BAC	290	8	0	8	5	0	0	0	0	0	0	5	13
	BAD	291	40	2	42	21	0	1	1	0	1	0	1	24
	311A	292	89	0	89	113	0	0	0	0	0	0	113	202
	329B	293	224	2	226	194	2	0	2	0	0	0	198	424
	348	294	47	0	47	55	0	1	0	0	0	0	56	103
	Population estimate	716,832	5,415	722,247	746,234	10,645	9,232	4,541	905	460	0	1,366	772,018	1,494,265
STEPOVAK BAY														
	368A	295	61	0	61	63	3	1	3	0	0	0	70	131
	STD	296	8	0	8	8	0	0	0	0	0	0	8	16
	STA	297	4	0	4	6	0	0	0	0	0	0	6	10
	STB	298	3	0	3	2	0	0	0	0	0	0	2	5
	STE	299	31	0	31	24	0	0	0	0	0	0	24	56
	Population estimate	158,463	0	158,463	158,924	6,038	2,013	6,038	0	0	0	0	173,013	331,476
WEST NAGAI														
	332B	178	9	2	11	5	2	3	0	0	0	0	10	21
	353	179	1	0	1	2	0	0	0	0	0	0	2	3

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Appendix H. (Page 5 of 5)

Station	Tow #	Females			Sublegal Males				Recruit	Postrecruit		Total Legal	Total Male	Total Crab
		Juv	Adult	Total	<70	70-91	92-114	>114		<165	>164			
354	180	0	0	0	0	0	0	0	0	0	0	0	0	0
334	181	0	0	0	0	0	0	0	0	0	0	0	0	0
335	182	0	0	0	0	0	0	0	0	0	0	0	0	0
301	183	0	0	0	2	0	0	1	0	0	0	0	3	3
318	184	1	0	1	0	0	0	0	0	0	0	0	0	1
337	185	0	0	0	0	0	0	0	0	0	0	0	0	0
373B	186	1	1	2	1	4	12	18	0	1	0	1	36	38
393	187	9	0	9	7	0	0	0	0	0	0	0	7	16
371	188	2	0	2	0	0	0	0	0	0	0	0	0	2
Population estimate		50,747	4,706	55,453	40,628	7,431	16,597	20,148	0	908	0	908	85,712	141,165
TOTALS		2,457,513	323,027	2,780,540	2,204,825	202,773	142,952	203,500	45,608	44,601	1,193	91,402	2,845,451	5,625,992

Appendix I. Numbers of Tanner crab per 1.85 km (1 nautical mile) in 1996 in the Chignik Management District with population index by area.

Station	Tow #	Females			Sublegal Males				Recruit	Postrecruit		Total Legal	Total Male	Total Crab
		Juv	Adult	Total	<70	70-91	92-114	>114		<165	>164			
IVANOF BAY														
400X	300	112	0	112	56	156	28	14	28	0	0	28	282	394
4000	301	6	1	7	5	2	0	1	0	0	0	0	8	15
4007	302	9	0	9	8	0	0	0	0	0	0	0	8	17
4008	303	8	0	8	19	1	0	2	1	0	0	1	23	31
4915	304	1	0	1	0	0	0	0	0	0	0	0	0	1
Population estimate		72,588	699	73,287	73,697	41,649	6,890	7,871	8,754	0	0	8,754	138,862	212,150
CHIGNIK BAY														
4256	162	16	0	16	22	0	0	0	0	0	0	0	22	38
4266	163	137	0	137	173	3	0	0	0	0	0	0	177	313
4267	164	18	0	18	11	1	0	2	4	0	0	4	18	36
4274	165	442	2	444	417	27	3	9	0	0	0	0	456	900
4278	166	18	18	36	19	0	4	21	11	10	0	21	65	101
4277	167	76	20	96	58	0	1	22	7	9	0	16	97	192
4272	168	41	0	41	52	0	0	0	0	0	0	0	52	93
4282	169	18	16	34	15	4	3	8	4	6	0	10	40	74
4265	170	2	0	2	4	0	0	0	0	0	0	0	4	7
4964	171	19	0	19	13	0	0	2	0	0	0	0	15	34
4264	172	89	0	89	95	1	0	0	0	0	0	0	96	185
4271	173	298	0	298	243	0	0	0	0	0	0	0	243	541
4270	174	39	0	39	29	1	0	0	2	0	0	2	32	71
4312	175	6	60	66	4	0	27	149	240	44	0	284	464	530
4287	176	11	10	21	23	0	6	26	2	4	0	7	61	82
4286	177	29	4	33	33	0	1	12	2	0	0	2	49	82
Population Estimate		1,007,659	128,777	1,136,437	995,237	34,926	44,795	249,658	263,870	72,615	0	336,485	1,661,101	2,797,538
KUJULIK BAY														
4298	305	20	0	20	25	0	0	0	0	0	0	0	25	45
4290	306	2	0	2	1	0	0	0	0	0	0	0	1	3
4296	307	47	0	47	40	0	0	0	0	0	0	0	40	87

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Appendix I. (Page 2 of 2)

Station	Tow #	Females			Sublegal Males				Recruit	Postrecruit		Total Legal	Total Male	Total Crab
		Juv	Adult	Total	<70	70-91	92-114	>114		<165	>164			
4301	308	13	0	13	14	0	0	0	0	0	0	0	14	27
4302	309	33	0	33	29	0	0	0	0	0	0	0	29	62
4308	310	195	10	205	142	0	0	0	0	0	0	0	142	347
Population estimate		231,502	7,595	239,097	188,334	0	0	0	0	0	0	0	188,334	427,430
Total Population		1,311,749	137,071	1,448,820	1,257,268	76,575	51,685	257,530	272,624	72,615	0	345,239	1,988,297	3,437,118

Appendix J. Numbers of king crab per 1.85 km (1 nautical mile) in 1996 in Alaska Peninsula Management Area with population index by area.

STN	Tow #	Females			Sublegal Males				Recruit	Post recruit	Total Legal	Total Male	Total Crab
		Juv.	Adult	Total	Four	Three	Two	One					
SANAK ISLAND													
113	194	0	0	0	0	0	0	0	0	0	0	0	0
125	195	0	0	0	0	0	0	0	0	0	0	0	0
126	196	0	0	0	0	0	0	0	0	0	0	0	0
138A	197	0	0	0	0	0	0	0	0	0	0	0	0
138B	198	0	0	0	0	0	0	0	0	0	0	0	0
138C	199	0	0	0	0	0	0	0	0	0	0	0	0
137	200	0	0	0	0	0	0	0	0	0	0	0	0
Population estimate		0	0	0	0	0	0	0	0	0	0	0	0
MORZHVOI BAY													
87B	189	0	0	0	0	0	0	0	0	0	0	0	0
87A	190	0	0	0	0	0	0	0	0	0	0	0	0
87C	191	0	0	0	0	0	0	0	0	0	0	0	0
87D	192	0	0	0	0	0	0	0	0	0	0	0	0
98C	193	0	0	0	0	0	0	0	0	0	0	0	0
MOP	201	0	0	0	0	0	0	0	0	0	0	0	0
MOK	202	0	0	0	0	0	0	0	0	0	0	0	0
MOH	203	0	0	0	0	0	0	0	0	0	0	0	0
MOL	204	0	0	0	0	0	0	0	0	0	0	0	0
MOI	205	0	0	0	0	0	0	0	0	0	0	0	0
MOG	206	0	0	0	0	0	0	0	0	0	0	0	0
MOF	207	0	0	0	0	0	0	0	0	0	0	0	0
MOD	208	0	0	0	0	0	0	0	1	1	2	2	2
MOB	209	0	0	0	0	0	0	0	0	0	0	0	0
MOC	210	0	0	0	0	0	0	0	0	0	0	0	0
MOJ	211	0	0	0	0	0	0	0	0	0	0	0	0
MON	212	0	0	0	0	0	0	0	0	0	0	0	0
MOU	213	0	0	0	0	0	0	0	0	0	0	0	0
MOV	214	0	0	0	0	0	0	0	0	0	0	0	0
MOR	215	0	0	0	0	0	0	0	0	0	0	0	0
MOS	216	0	0	0	0	0	0	0	0	0	0	0	0
MOO	217	0	0	0	0	0	0	0	0	0	0	0	0

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Appendix J. (Page 2 of 6.)

STN	Tow #	Females			Sublegal Males				Recruit	Post recruit	Total Legal	Total Male	Total Crab
		Juv.	Adult	Total	Four	Three	Two	One					
	Population estimate	0	0	0	0	0	0	0	714	714	1,428	1,428	1,428
COLD BAY / BELKOFSKI													
126	BEG	218	0	0	0	0	0	0	0	0	0	0	0
	156A	219	0	0	0	0	0	0	0	0	0	0	0
	BEA	220	0	0	0	0	0	0	0	0	0	0	0
	BEB	221	0	0	0	0	0	0	0	0	0	0	0
	BED	222	0	0	0	0	0	0	0	0	0	0	0
	BEC	223	0	0	0	0	0	0	0	0	0	0	0
	BEE	224	0	0	0	0	0	0	0	0	0	0	0
	BEF	225	0	0	0	0	0	0	0	0	0	0	0
	157A	226	0	0	0	0	0	0	0	0	0	0	0
	145B	227	0	0	0	0	0	0	0	0	0	0	0
	COO	228	0	0	0	0	0	0	0	0	0	0	0
	132A	229	0	0	0	0	0	0	0	0	0	0	0
	COM	230	1	0	1	0	0	0	1	3	4	4	6
	COGA	231	0	0	0	0	0	0	0	0	0	0	0
	COH	232	0	0	0	3	0	0	0	0	0	3	3
	COGB	233	1	0	1	0	0	0	2	11	14	14	15
	COB	234	1	0	1	0	0	0	0	0	0	0	1
	COC	235	0	0	0	0	0	0	0	0	0	0	0
	COE	236	2	0	2	0	0	0	0	0	0	0	2
	COF	237	0	0	0	1	0	0	0	0	0	1	1
	COJ	238	0	0	0	1	0	0	0	0	0	1	1
	Population estimate	4,180	0	4,180	2,776	0	0	0	1,574	4,155	5,729	8,506	12,686
PAVLOF / VOLCANO													
	VOL	239	1	0	1	1	0	0	0	0	0	1	2
	VOO	240	0	0	0	0	0	0	0	0	0	0	0
	VOP	241	0	0	0	0	0	0	0	0	0	0	0
	VOMA	242	0	0	0	0	0	0	0	0	0	0	0
	VOFA	243	0	0	0	0	0	0	0	2	2	2	2

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Appendix J. (Page 3 of 6.)

STN	Tow #	Females			Sublegal Males				Recruit	Post recruit	Total Legal	Total Mate	Total Crab
		Juv.	Adult	Total	Four	Three	Two	One					
VOFB	244	0	0	0	0	0	0	0	0	0	0	0	0
VOG	245	0	0	0	0	0	0	0	0	0	0	0	0
VOMB	246	0	0	0	0	0	0	0	0	0	0	0	0
VON	247	0	0	0	0	0	0	0	0	0	0	0	0
VOR	248	0	0	0	0	0	0	0	0	0	0	0	0
VOQ	249	0	0	0	0	0	0	0	0	0	0	0	0
VOH	250	0	0	0	0	0	0	0	0	0	0	0	0
VOI	251	0	0	0	0	0	0	0	0	0	0	0	0
VOJ	252	0	0	0	0	0	0	0	0	0	0	0	0
VOD	253	0	0	0	0	0	0	0	0	0	0	0	0
VOC	254	0	0	0	0	0	0	0	0	0	0	0	0
VOB	255	0	0	0	0	0	0	0	0	0	0	0	0
VOA	256	0	0	0	0	0	0	0	0	0	0	0	0
PAU	257	0	0	0	0	0	0	0	0	0	0	0	0
PARA	258	0	0	0	0	0	0	0	0	0	0	0	0
PAOA	259	0	0	0	0	0	0	0	0	0	0	0	0
PAH	260	0	0	0	0	0	0	0	0	0	0	0	0
PAI	261	0	0	0	0	0	0	0	0	0	0	0	0
PAE	262	0	0	0	0	0	0	0	0	0	0	0	0
PAB	263	0	0	0	0	0	0	0	0	0	0	0	0
PAC	264	0	0	0	0	0	0	0	0	0	0	0	0
PAF	265	0	0	0	0	0	0	0	0	0	0	0	0
PAJ	266	0	0	0	0	0	0	0	0	0	0	0	0
PAM	267	0	0	0	0	0	0	0	0	0	0	0	0
PAQ	268	0	0	0	0	0	0	0	0	0	0	0	0
PAS	269	0	0	0	0	0	0	0	0	0	0	0	0
PAP	270	0	0	0	0	0	0	0	0	0	0	0	0
PAL	271	0	0	0	0	0	0	0	0	0	0	0	0
PAOB	272	0	0	0	0	0	0	0	0	0	0	0	0
PARB	273	0	0	0	0	0	0	0	0	0	0	0	0
PAU	274	0	0	0	0	0	0	0	0	0	0	0	0
PAWA	275	0	0	0	0	0	0	0	0	0	0	0	0
VOE	276	0	0	0	0	0	0	0	0	0	0	0	0
228	277	0	0	0	0	0	0	0	0	0	0	0	0
245	278	0	0	0	0	0	0	0	0	0	0	0	0
Population estimate		403	0	403	403	0	0	0	0	498	498	901	1,303

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Appendix J. (Page 4 of 6.)

STN	Tow #	Females			Sublegal Males				Recruit	Post recruit	Total Legal	Total Male	Total Crab
		Juv.	Adult	Total	Four	Three	Two	One					
BEAVER / BALBOA / UNGA													
278	279	0	0	0	0	0	0	0	0	0	0	0	0
312A	280	0	0	0	0	0	0	0	0	0	0	0	0
BVC	281	0	0	0	0	0	0	0	0	0	0	0	0
BVA	282	0	0	0	0	0	0	0	0	0	0	0	0
BVB	283	0	0	0	0	0	0	0	0	0	0	0	0
BVD	284	0	0	0	0	0	0	0	0	0	0	0	0
311B	285	0	0	0	0	0	0	0	0	0	0	0	0
329C	286	0	0	0	0	0	0	0	0	0	0	0	0
BAF	287	0	0	0	0	0	0	0	0	0	0	0	0
BAE	288	0	0	0	0	0	0	0	0	0	0	0	0
BAA	289	0	0	0	0	0	0	0	0	0	0	0	0
BAC	290	0	0	0	0	0	0	0	0	0	0	0	0
BAD	291	0	0	0	0	0	0	0	0	0	0	0	0
311A	292	0	0	0	0	0	0	0	0	0	0	0	0
329B	293	0	0	0	0	0	0	0	0	0	0	0	0
348	294	0	0	0	0	0	0	0	0	0	0	0	0
Population estimate		0	0	0	0	0	0	0	0	0	0	0	0
STEPOVAK BAY													
368A	295	0	0	0	0	0	0	0	0	0	0	0	0
STD	296	0	0	0	0	0	0	0	0	0	0	0	0
STA	297	0	0	0	0	0	0	0	0	0	0	0	0
STB	298	0	0	0	0	0	0	0	0	0	0	0	0
STE	299	0	0	0	0	0	0	0	0	0	0	0	0
Population estimate		0	0	0	0	0	0	0	0	0	0	0	0
WEST NAGAI													
332B	178	0	0	0	0	0	0	0	0	0	0	0	0
353	179	0	0	0	0	0	0	0	0	0	0	0	0
354	180	0	0	0	0	0	0	0	0	0	0	0	0

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Appendix J. (Page 5 of 6.)

STN	Tow #	Females			Sublegal Males				Recruit	Post recruit	Total Legal	Total Male	Total Crab
		Juv.	Adult	Total	Four	Three	Two	One					
334	181	0	0	0	0	0	0	0	0	0	0	0	0
335	182	0	0	0	0	0	0	0	0	0	0	0	0
301	183	0	0	0	0	0	0	0	0	0	0	0	0
318	184	0	0	0	0	0	0	0	0	0	0	0	0
337	185	0	0	0	0	0	0	0	0	0	0	0	0
373B	186	0	0	0	0	0	0	0	0	0	0	0	0
393	187	0	0	0	0	0	0	0	0	0	0	0	0
371	188	0	0	0	0	0	0	0	0	0	0	0	0
Population estimate		0	0	0	0	0	0	0	0	0	0	0	0
IVANOF BAY													
129	400X	300	0	0	0	0	0	0	0	0	0	0	0
	4000	301	0	0	0	0	0	0	0	0	0	0	0
	4007	302	0	0	0	0	0	0	0	0	0	0	0
	4008	303	0	0	0	0	0	0	0	0	0	0	0
	4915	304	0	0	0	0	0	0	0	0	0	0	0
	Population estimate		0	0	0	0	0	0	0	0	0	0	0
CHIGNIK BAY													
4312	4256	162	0	0	0	0	0	0	0	0	0	0	0
	4266	163	0	0	0	0	0	0	0	0	0	0	0
	4267	164	0	0	0	0	0	0	0	0	0	0	0
	4274	165	0	0	0	0	0	0	0	0	0	0	0
	4278	166	0	0	0	0	0	0	0	0	0	0	0
	4277	167	0	0	0	0	0	0	0	0	0	0	0
	4272	168	0	0	0	0	0	0	0	0	0	0	0
	4282	169	0	0	0	0	0	0	0	0	0	0	0
	4265	170	0	0	0	0	0	0	0	0	0	0	0
	4964	171	1	0	1	0	0	0	0	0	0	0	1
	4264	172	0	0	0	0	0	0	0	0	0	0	0
	4271	173	0	0	0	0	0	0	0	0	0	0	0
	4270	174	0	0	0	0	0	0	0	0	0	0	0
	4312	175	0	0	0	0	0	0	0	0	0	0	0

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Appendix J. (Page 6 of 6.)

STN	Tow #	Females			Sublegal Males				Recruit	Post recruit	Total Legal	Total Male	Total Crab
		Juv.	Adult	Total	Four	Three	Two	One					
4287	176	0	0	0	0	0	0	0	0	0	0	0	0
4286	177	0	0	0	0	0	0	0	0	0	0	0	0
Population estimate		424	0	424	0	0	0	0	0	0	0	0	424
KUJULIK BAY													
4298	305	0	0	0	0	0	0	0	0	0	0	0	0
4290	306	0	0	0	0	0	0	0	0	0	0	0	0
4296	307	0	0	0	0	0	0	0	0	0	0	0	0
4301	308	0	0	0	0	0	0	0	0	0	0	0	0
4302	309	0	0	0	0	0	0	0	0	0	0	0	0
4308	310	0	0	0	0	0	0	0	0	0	0	0	0
Population estimate		0	0	0	0	0	0	0	0	0	0	0	0
Grand Total		5,007	0	5,007	3,179	0	0	0	2,288	5,367	7,655	10,834	15,841

Appendix K1. Big skate lengths by area from a trawl survey of the Alaska Peninsula area, 1996.

Length (cm)	Area Group										Totals
	21	22	23	24	25	26	27	61	63	64	
≤ 50	1	0	2	4	1	1	1	1	5	6	22
51	0	0	1	0	0	0	0	0	1	0	2
52	0	0	0	0	2	0	0	0	0	0	2
53	0	0	2	1	0	0	0	0	4	1	8
54	0	0	0	1	1	0	0	0	0	2	4
55	0	1	1	0	0	0	0	0	1	1	4
56	0	0	1	2	2	0	0	1	4	2	12
57	0	0	0	1	0	0	0	0	0	0	1
58	0	0	0	0	2	0	0	0	0	1	3
59	0	0	0	0	0	0	0	0	1	1	2
60	0	0	1	0	0	0	0	0	3	2	6
61	0	0	0	0	0	0	0	0	1	1	2
62	0	0	0	0	1	0	0	0	0	2	3
63	0	0	0	1	0	0	0	0	0	1	2
64	0	0	0	2	1	0	0	0	2	0	5
65	0	0	1	3	0	0	0	0	1	0	5
66	0	0	0	1	0	0	0	0	4	0	5
67	0	0	0	0	1	0	0	0	0	1	2
68	0	1	1	1	2	0	0	0	0	1	6
70	0	0	0	0	0	0	0	0	0	2	2
72	0	0	0	0	0	0	0	0	2	0	2
74	0	0	1	0	0	0	0	0	1	1	3
75	0	0	0	1	0	0	0	0	2	0	3
76	0	0	0	0	0	0	0	0	1	0	1
77	0	0	0	0	0	0	0	0	0	1	1
78	0	0	0	0	0	0	0	0	1	0	1
79	0	0	0	1	0	0	0	0	0	1	2
80	0	0	0	1	0	0	0	1	0	1	3
82	0	0	0	0	0	0	0	0	2	0	2
83	0	0	0	1	0	0	0	0	0	1	2
85	0	0	0	1	0	0	0	0	0	1	2
86	0	0	1	0	1	0	0	0	0	1	3
87	0	0	0	1	0	0	0	0	0	2	3
88	0	0	0	0	0	0	0	0	0	1	1
89	0	0	0	1	0	0	0	0	0	0	1
90	0	0	0	0	0	0	0	0	0	2	2
91	0	0	0	1	0	0	0	0	0	0	1
92	0	0	0	0	0	0	0	0	0	2	2
93	0	0	0	0	0	0	0	0	0	2	2
94	0	0	0	0	0	0	0	0	0	1	1
95	0	0	0	1	0	0	0	0	1	0	2
97	0	0	0	2	0	0	0	0	1	0	3
98	0	1	0	1	0	0	0	0	0	1	3
100	0	0	0	0	0	0	0	1	0	0	1
101	0	1	0	1	0	0	0	0	0	0	2
	1	4	12	30	14	1	1	4	38	42	147

21 Sanak Island 24 Pavlof/Volcano 27 West Nagai 64 Kujulik Bay
 22 Morzhvoi Bay 25 Beaver/Balboa/Unga 61 Ivanof Bay 63 Chignik Bay
 23 Cold Bay/Belkofski 26 Stepovak Bay

Appendix K.2 Arrowtooth flounder lengths by area from a trawl survey of the Alaska Peninsula area, 1996.

Length (cm)	Area Group											Totals
	21	22	23	24	25	26	27	61	63	64	Totals	
7	0	0	0	0	0	0	0	0	0	1	1	1
10	0	1	0	0	0	0	0	0	0	0	1	1
11	0	0	0	0	1	0	0	0	0	0	1	1
12	0	0	1	0	2	0	3	0	0	0	6	6
13	0	0	3	1	8	1	2	1	1	0	17	17
14	2	2	5	3	15	0	2	2	0	1	32	32
15	0	2	6	4	21	2	1	2	1	2	41	41
16	1	1	5	0	21	0	1	0	0	0	29	29
17	1	1	2	5	4	1	3	1	0	1	19	19
18	1	1	0	0	7	1	5	3	2	0	20	20
19	1	1	0	1	14	7	5	11	2	1	43	43
20	0	1	0	2	4	7	11	7	4	1	37	37
21	1	6	0	3	4	11	16	15	2	0	58	58
22	2	5	3	9	7	7	16	11	4	1	65	65
23	0	18	5	13	8	4	25	8	4	1	86	86
24	1	11	8	9	15	2	20	9	11	0	86	86
25	0	7	8	15	18	0	19	2	6	0	75	75
26	0	4	2	9	15	2	5	3	3	6	49	49
27	0	3	4	3	11	2	6	8	7	2	48	48
28	1	2	1	6	5	3	6	6	0	0	30	30
29	3	5	1	0	7	2	8	3	2	1	32	32
30	3	3	1	4	8	0	6	7	5	0	37	37
31	2	2	5	4	3	0	16	5	4	2	43	43
32	1	1	1	8	12	3	6	3	5	2	42	42
33	5	3	1	12	9	3	4	4	4	5	50	50
34	6	4	1	5	10	2	9	3	4	1	45	45
35	6	3	1	8	8	4	3	0	7	1	41	41
36	9	4	0	11	6	5	5	2	8	2	52	52
37	8	6	1	23	11	1	11	2	10	4	77	77
38	10	2	2	13	11	2	12	1	4	1	58	58
39	6	3	1	17	16	2	6	2	14	4	71	71
40	8	9	0	15	11	4	10	3	12	3	75	75
41	6	2	0	17	8	2	4	1	14	0	54	54
42	4	7	1	14	6	1	3	0	13	4	53	53
43	2	10	0	10	7	1	4	0	10	1	45	45
44	0	6	0	10	1	0	4	1	7	1	30	30
45	6	9	0	8	5	3	2	1	7	3	44	44
46	3	2	0	4	0	2	5	1	7	2	26	26
47	3	4	0	8	0	2	4	0	4	0	25	25
48	0	5	0	3	3	0	3	1	4	2	21	21
49	0	2	0	4	0	2	2	0	5	3	18	18
50	1	1	0	0	1	2	2	0	6	1	14	14
51	1	0	0	2	1	1	1	2	7	0	15	15
52	1	1	0	1	1	1	1	0	3	0	9	9
53	0	0	0	0	0	1	4	0	4	2	11	11
54	1	1	0	0	2	0	1	0	4	0	9	9
55	0	0	0	0	0	0	0	1	4	0	5	5
56	0	2	0	1	0	0	0	0	0	0	3	3
57	1	1	0	0	0	1	0	0	2	0	5	5
58	1	1	0	1	3	0	0	0	0	0	6	6
59	0	0	0	2	1	1	0	0	0	0	4	4
60	1	0	1	2	0	1	0	1	0	0	6	6
61	0	1	0	1	0	0	1	1	4	0	8	8
62	3	0	1	1	0	1	2	0	2	1	11	11
63	2	1	0	2	0	0	1	0	2	1	9	9

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Appendix K.2 (page 2 of 2)

Length (cm)	Area Group										Totals
	21	22	23	24	25	26	27	61	63	64	
64	0	1	0	1	1	0	1	0	1	0	5
65	1	0	0	0	1	1	1	0	3	0	7
66	4	2	0	1	2	0	0	1	6	0	16
67	0	0	1	0	0	1	1	0	1	0	4
68	0	1	0	1	0	0	1	0	2	0	5
69	2	1	0	0	1	0	1	0	2	0	7
70	1	0	0	0	1	0	0	0	0	0	2
71	0	0	0	0	1	1	0	0	1	0	3
72	1	0	0	0	0	0	0	0	2	0	3
74	0	0	0	0	1	0	0	0	0	0	1
75	1	0	0	0	1	1	0	0	0	0	3
76	1	0	0	0	1	0	0	0	0	0	2
77	0	0	0	0	0	0	0	1	0	0	1
78	0	0	0	0	1	0	0	0	0	0	1
80	1	0	0	0	0	0	0	0	0	0	1
81	0	0	0	0	0	0	0	0	1	0	1
84	0	0	0	0	0	1	0	0	0	0	1
	147	194	95	321	367	131	319	196	317	128	1859

Appendix K.3 Yellowfin sole lengths by area from a trawl survey of the Alaska Peninsula area, 1996.

Length (cm)	Area Group										Totals
	22	23	24	25	26	27	61	63	64		
9	0	1	2	0	0	0	0	0	0	0	3
10	0	0	5	0	0	0	0	0	0	0	5
11	0	0	1	0	0	0	0	0	0	0	1
12	0	0	4	1	0	0	0	0	0	0	5
13	0	2	2	0	0	0	0	0	0	2	6
14	0	3	6	0	0	0	0	0	0	1	10
15	0	2	7	0	0	0	0	0	0	0	9
16	0	2	6	0	0	0	0	0	0	0	8
17	0	3	2	0	0	0	0	0	0	0	5
18	0	1	2	0	0	0	0	0	0	0	3
19	0	1	1	0	0	0	0	0	0	0	2
20	0	1	1	0	0	0	0	0	0	0	2
21	0	0	8	0	0	0	0	0	0	0	8
22	0	2	4	0	0	0	0	0	0	0	6
23	0	2	10	0	0	0	0	0	1	13	
24	1	6	8	2	0	0	0	0	0	0	17
25	2	4	26	1	1	0	0	0	1	35	
26	4	18	20	1	0	0	0	0	2	45	
27	3	16	36	5	0	1	2	0	1	64	
28	4	30	45	15	0	0	3	0	0	97	
29	11	36	63	10	0	0	1	2	3	126	
30	19	40	70	19	0	1	1	0	3	153	
31	19	48	81	24	0	1	4	3	4	184	
32	14	58	68	30	0	3	5	2	2	182	
33	24	43	62	17	1	4	2	5	3	161	
34	22	39	61	23	1	6	4	4	2	162	
35	17	42	40	10	1	1	4	1	2	118	
36	15	24	24	5	1	3	1	2	2	77	
37	13	22	11	2	0	0	0	3	0	51	
38	10	14	6	3	1	1	0	1	0	36	
39	14	6	3	1	1	0	2	0	0	27	
40	4	2	1	1	0	0	1	4	0	13	
41	2	1	0	0	0	0	1	2	0	6	
42	1	0	0	0	0	0	0	4	0	5	
43	0	0	0	0	1	1	0	0	0	2	
44	1	0	0	0	0	0	0	1	0	2	
	200	469	686	170	8	22	31	34	29	1649	

21 Sanak Island

24 Pavlof/Volcano

27 West Nagai

64 Kujulik Bay

22 Morzhovoi Bay

25 Beaver/Balboa/Unga

61 Ivanof Bay

23 Cold Bay/Belkofski

26 Stepovak Bay

63 Chignik Bay

Appendix K4. Halibut lengths by area from a trawl survey of the Alaska Peninsula area, 1996.

Length (cm)	Area Group											Totals
	21	22	23	24	25	26	27	61	63	64		
14	0	0	0	1	0	0	0	0	0	0	0	1
15	0	0	0	0	0	0	0	0	0	1	1	1
16	0	0	0	0	0	0	0	0	0	2	2	2
17	0	0	0	0	0	0	0	0	0	7	7	7
18	0	0	0	0	1	0	0	0	0	4	5	
19	0	0	0	0	0	0	0	0	0	2	2	2
21	0	0	0	0	0	0	0	0	0	1	1	1
22	0	0	0	0	0	0	0	0	0	3	3	3
23	0	1	0	0	0	0	0	0	0	2	3	3
24	0	0	0	0	0	0	0	0	0	2	2	2
26	0	0	0	0	0	0	0	0	0	1	1	1
27	0	0	1	2	0	0	0	0	0	0	3	
28	0	0	0	3	0	0	0	0	0	0	3	3
29	0	0	0	2	0	0	0	0	0	0	2	2
30	0	0	0	1	0	0	0	0	0	0	1	1
31	0	0	0	4	0	0	0	0	0	0	4	
32	0	0	0	3	0	0	0	0	0	1	4	4
33	0	0	0	1	0	0	0	0	0	0	1	1
34	0	0	0	1	0	0	0	0	0	1	2	
35	0	0	0	0	0	0	0	0	0	1	1	1
36	0	0	0	1	0	0	0	0	0	0	1	1
38	0	0	2	3	0	0	0	0	0	0	5	
39	0	0	5	1	0	0	0	0	0	1	8	
40	0	1	2	6	1	0	0	0	0	0	10	
41	0	0	1	4	0	0	0	0	0	1	6	
42	0	0	1	5	0	0	0	0	1	0	7	
43	0	2	0	4	0	0	0	0	0	0	6	
44	0	0	1	1	3	0	0	0	0	1	6	
45	0	3	2	5	0	0	0	0	0	0	10	
46	0	0	1	1	1	0	0	0	1	0	4	
47	0	3	0	3	1	0	2	0	0	0	9	
48	0	5	2	4	1	0	0	0	0	1	13	
49	0	1	1	3	0	0	0	0	0	0	5	
50	0	4	1	5	3	0	0	0	0	1	14	
51	0	1	0	3	1	0	0	0	0	0	5	
52	0	1	1	1	4	0	2	0	0	0	9	
53	0	3	0	3	1	0	0	1	1	0	9	
54	0	2	2	5	4	0	0	0	2	2	17	
55	0	2	1	2	1	0	0	0	3	0	9	
56	0	2	0	13	3	0	1	0	0	0	19	
57	0	3	1	3	6	0	1	0	1	2	17	
58	0	4	0	7	6	0	1	1	3	1	23	
59	0	0	0	1	1	0	0	0	0	2	4	
60	0	0	1	2	2	0	1	0	3	3	12	
61	0	1	0	0	0	0	0	0	1	0	2	
62	0	3	0	0	6	0	3	0	3	1	16	
63	0	2	0	3	3	0	0	0	1	0	9	
64	0	1	1	1	4	0	1	0	4	0	12	
65	0	2	2	1	3	0	0	0	1	2	11	
66	1	2	0	0	4	0	3	1	1	1	13	
67	1	3	1	1	7	0	3	0	2	0	18	
68	0	5	6	4	3	2	5	1	1	4	31	
69	1	1	0	1	2	0	0	1	1	0	7	
70	1	3	3	3	2	0	0	1	2	0	15	
71	0	0	0	1	1	0	0	0	0	0	2	
72	1	0	0	2	2	1	2	0	0	2	10	
73	1	6	1	4	1	0	1	0	2	0	16	
74	0	1	2	1	4	0	2	0	2	1	13	
75	0	4	0	1	1	1	0	0	3	0	10	
76	0	1	3	3	7	0	5	0	3	0	22	
77	0	4	1	0	4	0	0	1	0	1	11	
78	0	3	4	4	6	0	3	0	3	1	24	
79	0	0	0	2	1	0	0	0	2	1	6	
80	1	4	1	5	3	0	1	0	2	1	18	
81	0	1	1	1	1	0	0	0	2	1	7	

--Continued--

Appendix K4. (Page 2 of 2.)

Length (cm)	Area Group											Totals
	21	22	23	24	25	26	27	61	63	64		
82	0	1	2	3	2	1	1	0	2	0	12	
83	0	2	1	5	4	0	0	1	3	1	17	
84	2	1	0	5	2	0	1	0	0	1	12	
85	0	4	2	3	1	0	1	0	1	0	12	
86	0	4	0	10	3	1	3	0	4	0	25	
87	0	0	2	5	3	0	0	0	1	0	11	
88	0	4	1	5	5	0	4	0	0	0	19	
89	0	1	0	0	0	1	1	0	0	0	3	
90	0	3	2	3	3	0	6	0	2	0	19	
91	1	0	0	0	1	0	1	0	1	0	4	
92	0	2	0	4	1	1	3	1	1	0	13	
93	0	3	0	2	1	0	4	2	0	1	13	
94	1	0	0	0	2	0	1	0	1	1	6	
95	0	2	0	3	2	1	0	0	3	0	11	
96	1	1	0	1	1	0	1	0	0	0	5	
97	0	1	0	5	0	0	3	0	1	2	12	
98	1	2	3	7	1	1	1	1	0	0	17	
99	0	1	1	0	1	0	1	1	1	0	6	
100	0	3	2	6	2	0	0	0	0	0	13	
101	0	0	0	0	1	0	0	0	1	0	2	
102	1	1	3	0	0	0	1	0	1	0	7	
103	0	5	2	3	0	0	1	0	2	0	13	
104	1	1	0	1	2	0	0	1	1	0	7	
105	0	1	0	1	1	0	0	0	1	1	5	
106	0	0	1	1	0	1	0	0	0	1	4	
107	0	0	1	2	1	0	0	0	0	0	4	
108	0	0	0	5	0	0	0	1	2	0	8	
109	1	1	0	1	0	1	0	0	2	0	6	
110	0	1	2	1	1	0	0	1	0	1	7	
111	0	0	1	0	0	0	0	0	0	0	1	
112	0	0	1	3	0	2	2	0	0	0	8	
113	0	1	0	0	0	0	0	0	0	2	3	
114	0	1	0	1	0	0	0	0	0	0	2	
115	0	0	0	1	0	0	0	1	0	1	3	
116	0	0	2	1	1	0	0	0	0	1	5	
117	0	1	1	2	0	1	0	0	0	0	5	
118	0	1	0	1	0	0	0	0	0	0	2	
119	0	1	0	0	0	0	0	0	0	0	1	
120	0	0	0	1	0	0	0	0	0	0	1	
121	0	0	1	0	0	0	0	0	0	1	0	
122	0	0	0	0	0	2	0	0	0	1	3	
123	0	0	0	0	0	1	0	0	0	0	1	
124	0	0	0	1	0	0	0	0	0	0	1	
125	0	0	0	0	0	0	0	0	1	0	1	
126	0	1	0	1	1	0	0	0	0	0	4	
127	0	0	0	1	0	0	0	0	0	0	0	
128	0	0	0	0	0	0	1	0	0	1	2	
132	0	1	0	1	0	0	0	0	0	0	2	
133	0	0	0	0	0	0	0	0	2	0	2	
134	0	0	1	0	0	0	0	0	0	0	1	
135	0	1	0	1	0	0	0	0	0	0	2	
137	0	1	0	0	1	0	0	0	0	0	2	
138	0	1	0	0	0	0	0	0	2	0	3	
140	0	0	0	1	0	0	0	0	0	0	1	
142	0	0	0	0	0	0	0	0	1	0	1	
144	0	1	0	0	0	0	0	0	0	0	1	
145	0	0	0	0	0	0	0	0	1	0	1	
149	0	0	0	0	0	0	0	0	1	0	1	
152	0	0	0	0	0	0	0	0	0	1	1	
153	0	0	0	1	0	0	0	0	0	0	1	
167	0	0	1	0	0	0	0	0	0	0	1	
175	0	0	0	0	0	0	0	0	1	0	1	
201	0	0	1	0	0	0	0	0	0	0	1	

21 Sanak Island
22 Morzhovoi Bay
23 Cold Bay/Belkofski

24 Pavlof/Volcano
25 Beaver/Balboa/Unga
26 Stepovak Bay

27 West Nagai
61 Ivanof Bay
63 Chignik Bay

64 Kujulik Bay

Appendix K5. Flathead sole lengths by area from a trawl survey of the Alaska Peninsula area, 1996.

Length (cm)	Area Group											Totals
	21	22	23	24	25	26	27	61	63	64		
7	0	0	0	1	0	0	0	0	1	0	2	2
8	0	0	1	0	1	0	1	0	0	1	4	
9	2	1	2	3	0	0	1	0	4	2	15	
10	3	2	7	2	4	0	3	0	2	2	25	
11	4	2	6	10	2	3	4	2	5	2	40	
12	3	6	15	16	9	4	10	6	8	4	81	
13	1	4	13	25	11	5	6	6	7	5	83	
14	1	5	18	14	9	4	5	5	6	2	69	
15	1	3	15	12	12	6	9	4	2	0	64	
16	3	4	18	13	3	10	6	2	3	1	63	
17	3	4	6	14	3	9	12	2	2	1	56	
18	9	11	9	22	4	6	9	2	4	3	79	
19	7	1	7	13	8	3	4	4	5	0	52	
20	6	1	7	6	2	2	4	1	2	3	34	
21	3	5	13	7	8	1	3	4	5	1	50	
22	5	1	11	9	6	9	3	5	7	3	59	
23	9	2	11	7	4	8	3	6	10	1	61	
24	7	9	13	10	5	10	8	5	8	3	78	
25	18	10	19	16	16	8	7	10	5	4	113	
26	16	7	6	20	12	15	6	10	16	3	111	
27	17	6	22	19	11	7	15	3	8	5	113	
28	6	8	17	21	13	5	14	6	10	3	103	
29	8	4	26	24	13	9	22	12	14	4	136	
30	11	15	35	22	18	8	21	12	16	7	165	
31	7	21	32	31	23	8	24	7	29	11	193	
32	15	29	42	30	24	9	33	10	29	5	226	
33	14	30	32	46	17	6	22	4	40	11	222	
34	5	24	20	39	25	1	25	11	31	11	192	
35	5	30	20	53	14	3	6	5	29	13	178	
36	7	19	20	26	12	2	13	7	23	11	140	
37	7	18	12	33	14	5	10	2	23	3	127	
38	1	22	15	25	21	4	2	2	12	8	112	
39	4	14	11	24	13	1	3	1	15	12	98	
40	3	20	7	25	7	0	1	2	10	5	80	
41	1	11	5	26	1	1	3	1	12	5	66	
42	0	16	4	29	3	1	0	0	8	2	63	
43	1	5	4	28	0	0	0	2	8	4	52	
44	0	1	2	13	1	0	1	0	7	1	26	
45	0	4	1	14	1	0	0	0	2	0	22	
46	0	2	1	10	2	0	0	0	4	1	20	
47	0	2	1	12	0	0	0	0	0	0	15	
48	0	0	0	5	1	0	0	1	0	0	7	
49	0	0	0	1	0	0	0	0	0	0	1	
50	0	1	0	3	0	0	0	0	0	0	4	
51	0	0	0	1	0	0	0	0	0	0	1	
52	0	2	0	0	0	0	0	0	0	0	2	
53	0	0	0	1	0	0	0	0	0	0	1	
	213	382	526	781	353	173	319	162	432	163	3504	

21 Sanak Island
22 Morzhovoi Bay
23 Cold Bay/Belkofski

24 Pavlof/Volcano
25 Beaver/Balboa/Unga
26 Stepovak Bay

27 West Nagai
61 Ivanof Bay
63 Chignik Bay

64 Kujulik Bay

Appendix K.6 Pollock lengths from a trawl survey of the Alaska Peninsula area, 1996.

Length (cm)	Area Group										Totals
	21	22	23	24	25	26	27	61	63	64	
6	0	2	3	2	1	2	0	1	0	0	11
7	1	2	0	2	1	0	0	0	0	0	6
8	0	0	2	0	0	0	0	0	0	0	2
9	0	0	0	2	0	0	0	0	0	0	2
16	0	0	1	1	0	0	0	0	0	0	2
17	0	2	1	0	0	0	0	0	0	0	3
18	0	3	2	1	0	0	0	1	0	0	7
19	0	2	0	3	0	0	0	0	0	0	5
20	0	5	0	3	0	0	0	0	0	0	8
21	0	1	0	4	0	0	0	0	0	0	5
31	0	1	0	0	0	0	0	0	0	0	1
32	0	0	0	0	0	0	0	1	0	0	1
33	0	1	0	0	0	0	0	0	0	0	1
34	0	1	2	1	1	0	0	0	0	0	5
35	0	0	2	0	0	0	0	1	0	0	3
36	0	1	4	0	1	0	0	1	0	0	7
37	0	0	2	0	1	0	0	1	0	0	4
38	0	0	1	0	1	0	0	0	0	0	2
39	0	0	2	1	1	0	0	0	0	0	4
40	0	0	0	0	1	0	0	0	0	0	1
41	0	0	1	0	0	0	0	0	0	0	1
43	0	0	0	0	0	1	1	0	0	0	2
44	0	0	0	0	0	1	0	2	0	0	3
45	0	0	0	1	2	0	0	0	0	0	3
46	0	1	0	1	1	0	0	1	0	0	4
47	0	1	0	4	1	0	0	1	1	0	8
48	0	1	0	0	0	0	0	2	1	0	4
49	0	12	0	5	0	1	0	1	0	0	19
50	0	15	0	7	1	0	4	3	0	0	30
51	0	18	0	0	2	4	3	4	5	2	38
52	0	14	0	4	3	3	2	3	6	1	36
53	0	13	1	9	7	2	2	1	7	0	42
54	0	16	1	8	5	2	0	1	10	0	43
55	0	11	1	4	6	3	3	0	7	0	35
56	0	9	1	5	3	1	0	1	8	3	31
57	0	5	3	10	3	1	3	1	6	1	33
58	0	4	2	3	3	1	0	0	1	0	14
59	0	3	4	6	2	1	0	0	2	0	18
60	0	0	5	2	1	2	2	0	0	0	12
61	0	0	1	3	1	0	0	0	0	1	6
62	0	0	4	0	0	0	0	0	0	0	4
63	0	0	0	2	1	0	3	0	0	0	6
64	0	0	1	1	0	0	0	0	0	0	2
65	0	0	0	0	1	0	0	0	1	0	2
66	0	0	1	1	0	1	0	0	0	0	3
67	0	0	0	1	0	0	0	0	0	0	1
68	0	0	1	0	0	0	0	0	0	0	1
	1	144	49	97	51	26	23	27	55	8	481

21 Sanak Island

22 Morzhovoi Bay

23 Cold Bay/Belkofski

24 Pavlof/Volcano

25 Beaver/Balboa/Unga

26 Stepovak Bay

27 West Nagai

61 Ivanof Bay

63 Chignik Bay

64 Kujulik Bay

Appendix K.7 Pacific cod lengths by area from a trawl survey of the Alaska Peninsula, 1996.

Length (cm)	Area Group											Totals
	21	22	23	24	25	26	27	61	63	64		
≤ 9	0	0	3	43	0	0	0	0	0	0	1	47
14	0	1	0	0	0	0	0	0	0	0	0	1
17	0	1	0	0	0	0	0	0	0	0	0	1
19	0	1	0	0	0	0	0	0	0	0	0	1
20	0	1	0	1	0	0	0	0	0	0	0	2
21	0	2	0	2	0	0	0	0	0	0	0	4
22	0	0	1	1	0	0	0	0	0	0	0	2
23	0	1	0	10	0	0	0	0	0	0	0	11
24	0	0	2	9	0	0	0	0	0	0	0	11
25	0	3	0	7	0	0	0	0	0	0	1	11
26	0	3	0	15	0	0	0	0	0	0	0	18
27	0	0	1	21	0	0	0	0	0	0	0	22
28	0	0	0	17	0	0	0	0	0	0	0	17
29	0	1	1	5	0	0	0	0	0	0	0	7
30	0	0	0	5	0	0	0	0	0	0	0	5
31	0	1	0	3	0	0	0	0	0	0	0	4
32	0	2	0	4	0	0	0	0	0	0	0	6
33	0	1	2	1	0	0	0	0	0	0	0	4
34	0	10	2	1	1	0	0	0	0	0	0	14
35	0	10	2	2	0	0	0	0	0	0	0	14
36	0	8	1	5	0	0	0	0	0	1	0	15
37	0	9	2	1	0	0	0	0	0	0	0	12
38	0	9	7	7	2	0	0	0	0	0	0	25
39	0	13	5	9	1	0	0	0	1	0	0	29
40	0	5	6	8	2	0	0	0	0	0	0	21
41	0	4	3	13	2	0	0	0	0	0	0	22
42	0	6	4	10	2	0	0	0	0	0	0	22
43	0	10	5	11	0	0	0	0	0	0	0	26
44	0	10	4	10	0	0	0	0	0	0	0	24
45	0	6	4	14	1	0	0	0	1	0	0	26
46	1	11	4	12	2	0	0	0	0	0	0	30
47	1	21	6	6	1	0	2	0	0	0	0	37
48	0	12	4	10	0	1	1	0	0	0	0	28
49	1	20	10	14	1	0	2	0	0	0	0	48
50	0	22	10	14	5	0	5	1	0	0	0	57
51	2	21	10	9	4	0	4	1	0	0	0	51
52	1	20	9	18	4	1	6	0	0	0	0	59
53	2	10	13	19	6	2	7	1	2	0	0	81
54	0	16	11	32	14	2	2	0	3	0	0	80
55	5	13	10	30	10	0	7	0	0	0	0	76
56	5	7	9	44	18	2	11	1	3	2	0	102
57	3	5	7	55	10	1	18	1	6	0	0	106
58	3	13	13	51	14	0	13	1	4	2	0	114
59	6	1	4	62	20	1	18	3	8	1	2	124
60	7	4	6	54	23	2	12	3	6	2	2	119
61	5	6	6	60	21	2	12	2	9	5	2	128
62	4	2	6	47	17	3	17	4	8	7	1	110
63	4	1	3	42	5	3	9	1	10	7	1	85
64	4	1	1	37	8	2	7	9	15	1	1	85
65	2	2	2	38	14	2	6	10	10	6	7	84
66	5	5	1	35	8	2	11	4	10	7	7	88
67	1	1	2	8	5	1	7	0	8	2	35	46
68	0	1	2	20	4	0	3	1	8	7	7	46
69	1	0	1	14	3	1	1	0	8	2	31	31
70	0	0	0	4	3	0	0	4	7	2	20	20
71	0	0	0	1	5	1	0	2	6	5	2	18
72	0	0	0	7	3	1	1	0	4	2	0	13
73	1	2	0	2	2	2	2	1	5	1	0	24
74	1	0	1	7	4	2	3	1	1	0	0	10
75	0	1	0	2	2	0	0	0	3	0	0	7
76	1	0	0	1	2	1	0	0	5	0	0	15
77	0	2	1	2	2	1	0	1	4	0	0	7
78	0	1	0	2	2	1	0	0	1	0	0	5
79	0	0	0	1	1	0	3	0	0	0	0	3
80	0	0	0	0	0	0	2	0	1	0	0	3
81	0	1	0	1	0	0	3	0	1	0	0	6
82	1	0	0	0	0	0	3	0	1	0	0	5
83	0	0	0	0	4	0	2	0	0	0	0	6
84	0	2	0	0	1	0	1	0	0	0	0	4
85	0	0	0	0	0	0	3	0	1	0	0	4
86	0	0	0	0	0	0	2	0	1	0	0	3
87	1	0	0	1	1	0	1	0	0	0	0	4
88	0	0	0	0	0	0	2	0	1	0	0	3
89	0	0	0	0	0	0	1	0	0	0	0	1
90	0	0	0	0	0	0	3	0	0	0	0	3
91	0	0	0	0	0	0	2	0	1	0	0	3
92	0	0	0	0	1	0	2	0	0	0	0	2
93	0	0	0	1	0	0	1	0	0	0	0	2
94	0	0	0	0	1	0	0	0	0	0	0	1
95	0	0	0	0	0	0	1	0	0	0	0	1
96	0	0	0	0	0	0	0	1	0	0	0	1
97	0	1	0	0	0	0	0	0	0	0	0	1
98	0	0	0	0	0	0	2	0	0	0	0	2
103	0	0	0	0	0	0	1	0	0	0	0	1

21 Sanak Island
22 Morzhovol Bay
23 Cold Bay/Belkofski

24 Pavlof/Volcano
25 Beaver/Balboa/Unga
26 Stepovak Bay

27 West Nagai
61 Ivanof Bay
63 Chignik Bay

64 Kujulk Bay

Appendix K.8 Alaska plaice lengths by area from a trawl survey of the Alaska Peninsula, 1996.

Length (cm)	Area Group										Totals
	21	22	23	24	25	26	27	61	64		
26	0	0	0	0	0	0	2	0	0	0	2
29	1	0	0	0	0	0	0	0	0	0	1
30	0	0	0	0	0	0	0	0	1	0	1
31	0	0	3	0	0	0	0	0	0	0	3
34	0	0	1	0	0	0	0	0	0	0	1
35	0	0	1	0	0	0	0	0	1	0	2
36	0	1	2	0	0	0	0	0	0	0	3
37	0	0	1	0	0	0	0	0	0	0	1
38	0	0	2	1	2	0	0	0	0	0	5
39	0	1	3	1	2	0	0	0	0	0	7
40	1	1	0	0	0	0	0	0	0	0	2
41	0	1	0	0	2	0	1	0	0	0	4
42	0	1	2	1	1	0	0	0	0	0	5
43	0	4	1	2	1	0	0	0	0	0	8
44	0	0	1	1	0	0	0	0	1	0	3
45	0	0	2	0	0	0	0	0	0	0	2
46	0	2	1	0	1	0	1	0	1	0	6
47	0	0	2	0	1	0	0	0	0	0	3
48	0	0	1	3	0	0	0	0	0	0	4
50	0	1	1	1	1	0	0	0	0	0	4
51	0	3	0	1	0	0	0	1	0	0	5
52	0	0	0	2	0	0	0	0	0	0	2
53	0	0	1	0	0	0	0	0	0	0	1
54	0	1	0	1	0	0	0	0	0	0	2
55	0	1	0	3	1	0	0	1	0	0	6
57	0	1	0	2	0	0	0	0	0	0	3
58	0	0	0	1	0	1	0	0	0	0	2
59	0	0	1	0	0	0	0	0	0	0	1
60	0	0	0	0	0	0	0	1	0	0	1
62	0	0	0	1	0	0	0	0	0	0	1
63	0	0	0	0	0	0	0	1	0	0	1

Appendix K.9 Sablefish lengths by area from a trawl survey of the Alaska Peninsula 1996.

Length (cm)	Area Group						Totals
	23	24	25	27	63		
30	0	1	0	0	0	0	1
31	0	2	0	0	0	0	2
32	1	0	1	0	0	0	2
33	1	1	1	0	0	0	3
34	2	5	1	0	0	0	8
35	2	14	0	0	0	0	16
36	2	9	1	0	0	0	12
37	0	8	1	0	0	0	9
38	1	6	0	0	0	0	7
39	0	10	1	0	0	0	11
42	0	1	0	0	0	0	1
52	0	0	0	0	1	0	1
55	0	0	0	0	1	0	1
56	0	0	0	1	0	0	1
63	0	0	0	1	0	0	1

21 Sanak Island

22 Morzhovoi Bay

23 Cold B./Belkofski

24 Pavlof/Volcano

25 Beaver/Balboa/Unga

26 Stepovak Bay

27 West Nagai

61 Ivanof Bay

63 Chignik Bay

64 Kujulik Bay

Appendix K.10 Miscellaneous fish lengths including skates, sole, flounder, and rockfish from a trawl survey of the Alaska Peninsula area, 1996.

Length (cms)	Shortraker rockfish	Northern rockfish	Shorttaker rockfish	Redstripe Rockfish	Dusky Rockfish	Pacific ocean perch	Rougheye rockfish	Dover sole	English sole	Butter sole	Rex sole	Starry Flounder	Longnose skate	Bathyraja spp.
9	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	0	0	0	0	0	0	0
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0
22	0	0	0	0	0	0	0	0	0	0	0	0	0	0
23	0	0	0	0	0	0	0	0	0	0	0	0	0	0
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0
26	0	0	0	0	0	0	0	0	0	0	0	0	0	0
27	0	0	0	0	0	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0
29	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0
31	0	0	0	0	0	0	0	0	0	0	0	0	0	0
32	0	0	0	0	0	0	0	0	0	0	0	0	0	0
33	0	0	0	0	0	0	0	0	0	0	0	0	0	0
34	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0
36	0	0	0	0	0	0	0	0	0	0	0	0	0	0
37	0	0	0	0	0	0	0	0	0	0	0	0	0	0
38	0	0	0	0	0	0	0	0	0	0	0	0	0	0
39	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0	0	0	0	0
41	0	0	0	0	0	0	0	0	0	0	0	0	0	0
42	0	0	0	0	0	0	0	0	0	0	0	0	0	0
43	0	0	0	0	0	0	0	0	0	0	0	0	0	0
44	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
46	0	0	0	0	0	0	0	0	0	0	0	0	0	0
47	0	0	0	0	0	0	0	0	0	0	0	0	0	0
48	0	0	0	0	0	0	0	0	0	0	0	0	0	0
49	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0
51	0	0	0	0	0	0	0	0	0	0	0	0	0	0
52	0	0	0	0	0	0	0	0	0	0	0	0	0	0
53	0	0	0	0	0	0	0	0	0	0	0	0	0	0
54	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0	0
56	0	1	1	1	0	0	0	0	0	0	0	0	0	0
57	0	0	1	0	0	0	0	0	0	0	0	0	0	0
58	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	1	0	0	0	0	0	0	0	0	0	0
61	0	0	0	2	0	0	0	0	0	0	0	0	0	0
62	0	0	0	1	0	0	0	0	0	0	0	0	0	0
63	0	0	0	0	0	0	0	0	0	0	0	0	0	0
64	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0	0
66	1	1	0	0	0	0	0	0	0	0	0	0	0	0
67	0	0	0	0	0	0	0	0	0	0	0	0	0	0
68	0	1	0	0	0	0	0	0	0	0	0	0	0	0
69	0	1	0	0	0	0	0	0	0	0	0	0	0	0
82	0	0	0	0	0	0	0	0	0	0	0	0	0	1
	9	5	29	31	36	1	4	46	2	39	5	0	1	1
21	Sanak Island		24	Pavlof/Volcano		27	West Nagal	64	Kujulik Bay					
22	Morzhovol Bay		25	Beaver/Balboa/Ungal		61	Ivanof Bay							
23	Cold Bay/Beilkofsl		26	Stepovak Bay		63	Chignik Bay							